TALLINN UNIVERSITY OF TECHNOLOGY School of Information Technologies

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ANALYZING THE FACE VALUE OF FAKE ACCOUNTS IN ONLINE SOCIAL NETWORKS

Master's Thesis

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Juhendaja: Birgy Lorenz PhD

Author's declaration of originality

I hereby certify that I am the sole author of this thesis. All the used materials, references to the literature and the work of others have been referred to. This thesis has not been presented for examination anywhere else.

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18.05.2020

Abstract

The purpose of the thesis is to conduct a study to analyze the perceived understanding of the face value of accounts in Online Social Networks with concerns about the user's cognitive process. The growth in Online Social Networks leads to a lot of problems caused by fake accounts in such networks as Facebook, Instagram, LinkedIn, and Twitter. The thesis gives an overview of previous studies and challenges with Online Social Networks are eminent all over the world, therefore comparison study was chosen to be done with India, the UK, the US and focus groups were limited to ages 18-25. In the background, analysis of fake accounts creation process in different Online Social Networks, it's challenges, ethical considerations and guidelines are also covered. The methodology uses a survey method for data collections and follows Pearson correlation and multiple linear regression analysis for data analysis. The thesis aims to analyze and find the visual and usage characteristics that influence a user's cognitive process of young people. This thesis is written in English and is 107 pages long, including 7 chapters, 50 figures, and 8 tables.

Annotatsioon

Võltskontode näoväärtuse analüüsimine veebipõhistes sotsiaalsetes võrgustikes

Lõputöö eesmärk on viia läbi uuring, mille eesmärk on analüüsida veebis suhtlusvõrgustikes olevate kontode nimiväärtuse tajutavat mõistmist koos murega kasutaja kognitiivse protsessi pärast. Online-sotsiaalvõrgustike kasv toob kaasa palju probleeme, mis on põhjustatud võltskontodest sellistes võrkudes nagu Facebook, Instagram, LinkedIn ja Twitter. Lõputöö annab ülevaate varasematest uuringutest ja väljakutsetest võrgusuhtlusvõrgustike ja eetika valdkonnas. Noorte veebipõhiste suhtlusvõrgustike kasutamisega seotud probleemid on ilmsed kogu maailmas, seetõttu valiti võrdlusuuring India, Suurbritannia, USAga ja fookusgrupid olid vanuses 18-25 võltskontode loomise protsessi aastat. Taustal on analüüs erinevates veebisuhtlusvõrgustikes, käsitletud on ka väljakutseid, eetilisi kaalutlusi ja juhiseid. Metoodikas kasutatakse andmekogumiseks küsitlusmeetodit ja andmete analüüsimisel järgitakse Pearsoni korrelatsiooni ja mitme lineaarse regressioonianalüüsi. Töö eesmärk on analüüsida ja leida visuaalseid ja kasutusomadusi, mis mõjutavad kasutaja noorte kognitiivset protsessi. See lõputöö on kirjutatud inglise keeles ja on 107 lehekülge pikk, sisaldades 7 peatükki, 50 joonist ja 8 tabelit.

Table of abbreviations and terms

OSN	Online Social Networks		
APT Advanced Persistent Three			
VPN	Virtual Private Network		
САРТСНА	Completely Automated Public Turing test		
	to tell Computers and Humans Apart		
FA	Fake Account		
FB	Facebook		
SMPT	Social Media Profile Theft		
UK	United Kingdom		
US	United States of America		
T&C Terms and Conditions			

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1 Introduction

The thesis focuses on problems in Cyberpsychology also known as Internet psychology, web psychology, or digital psychology. Cyberpsychology is a sub-field of psychology and cybersecurity concerned with the psychological effects and implications of computer and online technologies such as the internet, to say it simple "it's about why and how people interact online in the way they do" [37]. This thesis focuses on a topic in this field which is about Online social networks (OSN) and understanding how people accept online identities at face value.

The problems faced by young people in these modern times and impacts of OSN on them are widely covered in the Background section. The next chapter gives a complete background on the problem and the scientific studies happening in cyberpsychology.

2 Background

Online social networks (OSN) are social connections with similar interests over the internet. Nowadays there's a lot of active users in Online Social Networks. It plays an important role for online users to carry out their regular activities like content sharing, news reading, posting messages, product reviews, and discussing events, etc. [34].

An increasingly popular difficulty on OSNs that individuals are forced to deal with each day is the impersonation or Social Media Profile Theft (SMPT) [32]. SMPT happens when an impersonator sets up a fake account on social media which copies another user as a prank or to mock them and their activities [31]. By successfully copying the account, the impersonator will be able to gain the trust of the original user's friends or followers and spread misinformation to establish his/her motives.

Generally, the profile thefts happen in two ways, one is through stolen credentials of the original user & taking complete control of their account and another way is completely

impersonating the original user's profile. Either way, it's hard to identify them. Trust is a major factor in which the people believe and fall into the traps of fake accounts.

Also, various kinds of spammers equally use OSN's for their own purposes. Cybercriminals including online fraudsters, sexual predators, catfishing (a deceptive activity where a user creates a fake profile on a social networking service, usually targeting a specific victim for fraud or abuse [76]), advertising campaigners, and social bots, etc. exploit the network of trust by different methods especially by creating fake accounts to spread their reach and carry out scams [34]. A lot of these fake identities are very harmful to both the users and the OSN service providers. From an OSN service provider's perspective, fake accounts damage the well-established reputation of the network and it leads to loss of bandwidth. To find out these fake users, a lot of manpower effort and very technical automation methods must be used.

All the online social networks have been created to address the communication gap between people and helping them to get in touch with each other. In recent years, they have become increasingly popular and it's not about simply communicating with people anymore. It has become much more than that, nowadays, these online social networks have been used for Advertising, Online Business, and much more. Cybercriminals have started to exploit these various uses of online social networks to carry out cyber-attacks every day.

The number of fake accounts in Online social networks is kept increasing day by day. Various detection mechanisms have been employed by major tech companies to find fake accounts but still, threats keep spreading through these accounts.

Online Social Networks play a crucial role in people's daily lives. It has not only enhanced the way people communicate with each other but also paved the way for potential threats such as Identity Theft, Scams, and False advertisements. Fake accounts stand at the root cause of all these problems.

For the purpose of this research, the platforms were evaluated to find if the problems persist and if they are still relevant from a time context. The below literature focuses on the literature gap, the evaluation of the platforms, ethical consideration, and novelty. The literature has been collecting various sources on the web. The primary sources for the research were IEEE Xplorer [40], Research Gate [42], Google Scholar [41], Scopus [47], and Science Direct [43].

2.1 Analyzing the gaps in the Literature

The main focus in previous studies was how the OSN affects the psychology of the users and psychology wise the focus is on how the users perceive what OSN accounts and what impacts them. There are also several types of research done pointing out the technical and behavioral challenges regarding different OSN and OSN usage in different countries that are the focus of this thesis.

2.1.1 Analysis of Previous Studies

In 2011, a study talks about the Manifestations of Personality in Online Social Networks Self-Reported Facebook-related Behaviors and Observable Profile Information [50]. The study was conducted because of a lot of popularity for platforms like Facebook at that time. It further explains how personality traits of individuals change in OSN and how they extend their offline personalities in OSN domains. The method has used a Likert scale to collect responses and a five-factor model to analyze traits such as extraversion, neuroticism, conscientiousness, agreeableness, and openness. This study shows the problems in the way users perceive online identity and its information and how it changes their behavior. Although this study does not focus exactly on fake accounts, it focuses on the underlying problem of the impact of OSN in the user's cognitive process.

In 2015, Arun Vishwanath researched about habitual Facebook use and its impact on getting deceived on social media [51]. The study focused on understanding how OSN usage will influence users from falling into phishing traps or get deceived by fake accounts. The study aimed to test a different hypothesis to conclude the results. For each hypothesis, the study has selected traits such as habitual use scores, levels of commitment in the platform, and concerns for privacy. Finally, the study has done regression testing to analyze the results.

In 2017, a study by Vanshika Ahuja and Shirin Alavi focused on cyberpsychology and cyber behavior of adolescents and the need for the contemporary era [48]. The study focused on youngsters who typically spend a lot of time online chatting with their close friends through online social networks, playing online games, and do more shopping

online. The study proposed a framework to classify their behavior online as Expressive, Impatient, Connected, Impersonal, and Knowledgeable in order to effectively analyze the impact of OSN on them.

In a recent study from April 2019, Sabik N.J, Falat J, and Magognos J talk about how Social media have become primary forms of social communication and means to maintain social connections among young adult women and it analyses how it affects their psychological well-being. The present findings from the study show that women's selfworth depends on social media feedback which reported lower levels of resilience and self-kindness and higher levels of stress and depressive symptoms [49].

Several other studies focus on the different aspects of Online social networks, Pooja V. Phad and Mr. M. K. Chavan (2018) in their study focus on the Behaviour of the user's activity and writing patterns to establish a behavior profile of malicious users to accurately detect the compromised accounts in online social networks [4]. Traditional methods always fail to differentiate fake accounts from the real ones. Yeh-Cheng Chen and Shyhtsum Felix Wu (2018) in their study propose an innovative way to identify fake accounts in which the user activity is monitored over time and by leveraging machine learning they were able to predict whether an account is controlled by a possible malicious user or not [3].

Generally, the social behavior of a person differs from their online behavior. An interesting study was done by Sneha Rane, Megha Ainapurkar and Ameya Wadekar (2018) focus on detecting compromised accounts and spam users in social networks, by validating the clickstream data of users and matching their social behavior profile with online behavior, they were able to identify the fake users on social networks [5]. Back in 2010, Alan Mislove, Massimiliano Marcon, Krishna P. Gummadi, Peter Druschel, and Bobby Bhattacharjee conducted interesting research about measuring and analyzing multiple online social networking sites like Orkut, YouTube, and Flickr which were the popular sites that time, their work presents a large-scale measurement study where they obtained social network graph of the combined social networks and collected a data set containing over 11.3 million users and 328 million links and the results from their research confirmed the power-law, small world and scale-free properties of online social networks [2].

A recent study focused on Identity Deception on social networks, Estee van der Walt and Jan Eloff (2019) in their study have used Supervised Machine learning models to detect identity deception and they have used identity-related metadata from social networks for their study [6]. A lot of recent studies have started to adapt to Machine learning methodologies for their research as it produces many efficient results. Sarah Khaled, Neamat El-Tazi, and Hoda M.O. Mokhtar (2018) in their study have proposed a new innovative algorithm SVM-NN to provide efficient detection for fake accounts on social networks, on top of this new algorithm other algorithms like Support vector machines (SVM) and Neural network (NN) were also used and by combining these algorithms the study was able to correctly classify 98% of the accounts [7]. Accounts in social networks vary based on their context, as there are normal accounts in the platform and there are followers who follow other accounts and view other account feeds. Loredana Caruccio, Domenico Desiato, and Giuseppe Polese (2018) in their study focus on fake account detection using a technique that exploits knowledge automatically from big data to differentiate fake accounts from real accounts [8].

Pathogenic Social Media (PSM) accounts such as terrorist based accounts and false news writers were capable of spreading false information to large scale social networks. Elham Shaabani, Ashkan Sadeghi-Mobarakeh, Hamidreza Alvari and Paulo Shakarian (2019) in their study propose an end to end framework along with graph-based metrics to distinguish PSMs from regular users [9].

Another study conducted by Ahmed Abouollo and Sultan Almuhammadi focuses on detecting fake accounts based on HTML canvas Fingerprint to match the accounts with the same people [10]. In online social networks, the detection of fake followers has always been a challenging problem. Nitin T simon and Dr. Susan Elias in their study propose a measure based on a computer feature ratio value to differentiate fake followers from real users [11].

Kyumin Lee, James Caverlee, and Steve Webb in their study uncovered the social spammers using the deployment of social honeypots to harvest deceptive spam profiles from social networking communities and also analyzing the statistics of the properties of the spam profiles [12]. One interesting study by Ali M. Meligy, Mohamed F.Torky, and Hani M.Ibrahim was using a detection technique called 'Fake Profile Recognizer' to verify the fake accounts in online social networks. The technique is based on Regular

Expression (RE) and Deterministic Finite Automaton (DFA) approaches and the results of the technique explored high precision, accuracy, low false-positive rates, and Recall of detecting the fake accounts [13]. A special case study was done by Quiang Cao, Michael Sirivianos, Xiaowei Yang, and Tiago Pregueiro focused on using a custom tool called 'SybilRank' relied on social graph properties to rank users in online social networks and to find the fake profiles [14]. Another case study in Twitter accounts done by Supraja Gurajala, Joshua S White, Brain Hudson, Brain R Voter, and Jeanna N Matthews analyzed 62 million publicly available twitter user-profiles and used pattern-matching algorithm to find the fake users in an efficient manner [15]. The same team performed another experiment with an activity-based pattern detection approach and social graph analysis to find the fake profiles in OSN (Online social networks) [16].

Recently, Online Social Networks have been a target for Identity Clone Attacks (ICA). One fine research was done by Lei Jin, Hassan Takabi, and James B.D. Joshi proposed a detection framework that focused on two approaches attribute similarity and similarity of friend networks respectively and were able to discuss solutions to validate suspicious identities [17]. Several studies focused on spammers in online social networks. A study conducted by Gianluca Stringhini, Christopher Kruegel, and Giovanni Vigna analyzed the extent of the spam in OSN and created a large set of profiles and detected the spam profiles and were able to delete them successfully [18].

Another study was done by Cao Xiao, David Mandell Freeman and Theodore Hwa used a scalable approach to detect a cluster of spam accounts [19]. A similar study was done by Xianghan Zheng, Zhipeng Zeng, Zheyi Chen, Yuanlong Yu, and Chunming Rong used SVM based spam detection algorithm and the solution produced a true positive rate of spammers and non-spammers as 99.1% and 99.9% respectively [20].

The users in OSN involve in online deception using fake accounts. Studies such as [52] and [53] show that online deception is a major problem and people who deceive online are frequent users and they are aged between 18 and 25. The studies have shown that young users are more likely to be deceptive online than older users. The most reasons for such activities are usually for playing and keeping privacy. These users enjoy a sense of enjoyment when involving in such activities.

From analyzing different studies, we can see that OSN impacts the user's psychology and leads to online deception by malicious users. So, it's very important to analyze the problem of which traits of fake accounts impact the user's cognitive process and deceive them.

In a 2014 study, Avanish Pathak focused on the research of analysis of various tools, methods, and systems to generate fake accounts successfully in online social networks. Further, the study focused on the effectiveness of such accounts, but it was centered around security measures and bypassing them with such accounts. The gap in the study was that it didn't analyses effectiveness of the accounts with real users [35]. Another study in 2018 done by Patricia Moravec, Randall Minas and Alan R. Dennis, focused on the face value of fake news content and why people believe such news in Online social networks. This study was analyzing the factors on which the user's judgments were based on for believing fake news. The gap in the study was that it did not analyze the face value of fake news in online social networks [36]. Ultimately, the gap in the above two studies can be addressed by studying the effectiveness of fake accounts on real people and analyzing the factors why people believe such accounts.

This thesis will take a similar approach followed by [50] and [51] but on different traits such as visual and platform usage characteristics to analyze the problem deeply.

2.1.2 Analysis of problems in different OSN

Online Social Networks such as Facebook, Twitter, LinkedIn, Instagram brings people together from different parts of the world to communicate effectively online. The evergrowing number of users in these platforms impersonates their online presence. Facebook includes around 500,000 new users every day and 74% of Facebook users check it every day. VK [30] is a similar service provider like Facebook but famous only with the users in Russia. Twitter has over 500 million people visiting each month without even logging into the platform and over 391 million accounts have no followers. Instagram, on the other hand, has over 1 billion monthly active users and an average Instagram user spent 15 minutes each day on the platform. It has been recorded that LinkedIn has 650 million users and 106 million users access the site monthly [78].

The thesis covers only four platforms as these stands at the top with a greater number of fake account problems. Facebook has reported a 270 million fake account, Twitter with

330 million accounts, LinkedIn has 19.5 million fake accounts [55] and Instagram has 1 billion users and around 8% of them are fake [54]. The one thing common between all these platforms is that it has been used mostly by people aged between 18 and above.

2.1.3 Analysis of OSN problems in different countries

The study has chosen three countries namely India, the USA, and the UK for the research. India has over 376 million active social media users as of 2020 [56]. The UK accounts for 45 million social media users as of January 2020 [57]. The USA has over 230 million active social media users as of 2020 [58].

In India, young people aged between 18 -30 uses the most social media and the median age is 27 years [59]. Facebook and Instagram statistics in India show that people who use these platforms over 70% are people aged between 18 and 24. Similar trends can be seen in Twitter and LinkedIn also. Reports show that in India, there is a lack of privacy concerns in social media and a lot of organizational concerns about disclosing sensitive information over social media [60].

In the UK, people aged between 16 and 64 accounts for 70% of social media usage. In the UK, Facebook users aged between 20 and 29 use the social platform than any other demographic [61]. Similar trends can be seen on Instagram, Twitter, and LinkedIn also. Reports show that in the UK, there is a growing concern for content available in social media for kids which includes terrorism, violence, hate speech, cyberbullying, disinformation, and age-inappropriate material [62].

In the USA, the group of people aged between 18 and 29 accounts for 90% of social media usage [63]. On Facebook, people aged between 18 and 29 account for 79% of the usage. For Instagram, people aged between 18 and 29 account for 67% of the usage. 38% of Twitter usage is from people aged between 18 and 29, while 28% of LinkedIn usage comes again from people aged between 18 and 29 [64]. The key issues surrounding social media in the US are mainly privacy concerns, data breaches, exploitation of private information, data mining, phishing attempts, malware sharing, and botnet attacks [65].

2.1.4 Analysis of OSN problems in young people

After analyzing all the above statistics, different demographics, and security concerns, the thesis has selected the focus group size as people aged between 18 - 25. The study is

specifically focusing on young people as they account for the most online activity. In a study from 2013 [66], the understanding of young people's usage of online social networks focus on three main areas such as 'connecting and convenience', 'openness and control', and 'privacy and authenticity' and it shows that their everyday lives focus mainly on the above three areas.

Trends show that young people use online social networks more as they communicate with friends constantly to keep their friend's circle intact. They are quite expert in using these platforms as they seek a relationship, look for jobs, and even do online shopping. They tend to be more active and are prone to be affected by fake accounts and other threat actors [68]. Studies [67] show younger people are less concerned with privacy than older people and tend to show more information about themselves on OSN to increase their reputation among peers. Younger people are more subjected to cyberbullying and affected more by fake accounts [69]. Since young people are more likely to come across fake accounts or even affected by one, it is important to analyze and understand which characteristics of such accounts work on them and how their usage in these platforms impacts their cognitive decisions.

From analyzing the above statistics and problems of young people in different OSN and different countries, the study has decided to focus on young people to analyze the face value of OSN accounts.

2.2 Analysis of Fake account creation & Ethical Challenges

For this research, data about creating fake accounts collected over 3 years has been used. In each of the collected data, there are specific attributes that make up the accounts so unique and convincing and hard to get detected when being used in real-time. This data has been used for creating fake accounts in this research study.

A total of 8 fake accounts with 2 different accounts (male/female) were created for each platform such as Facebook, LinkedIn, Twitter, and Instagram. Each of these accounts was created with unique attributes. Some of the accounts resemble real accounts while some are fictional.

To create fake accounts, an experimental setup was used in this research. To create any fake accounts in online social networks, the important things needed are an e-mail address, VPN, a password manager, and a fake information generator.

An Electronic Mail (E-mail) is a way of exchanging messages between people using electronic devices [21]. E-mail acts as a digital address on the Internet for everyone to communicate with other people. Most of the online social networks require an email for account creation so that these OSN's can verify whether the email is valid and give the user an account based on that. The main reason for a large number of fake accounts in Online social networks is the fake email accounts [23].

A virtual private network (VPN) usually extends a private network across a public network and allows users to send and receive data across shared or public networks as if their computing devices were directly connected to the private network [22]. VPN's are used to anonymize users in the online social networks so that their activity won't be traced back to their original location.

Back in the days, users save their passwords in sticky notes or memorize their passwords. Most users use the same password for different applications which leads to a single point of failure because if their password is compromised all of their accounts in different applications can be compromised as well. Now with Password managers, users can create different passwords for different applications and store them securely.

A lot of fake information generator sites provide fictional information about users that don't exist in the real world. The following websites can be taken as an example: fakepersongenerator.com [24], fakenamegenerator.com [25], etc.

2.2.1 Analysis of Fake account creation in different OSN Platforms

Facebook

Facebook is a very popular free social networking site that allows users to register, create profiles, upload photos, and video, send messages, and keep in touch with friends [27]. Facebook is available in 37 different languages, includes public features such as Groups, Events, Marketplace, and Places.

First, the experimental research was done on Facebook to create 4 different fake accounts. On Facebook, it's quite difficult to create a fake account. To create a fake account on Facebook, information such as First name, Last name, Email or Phone number, password, and date of birth are needed. After providing the above information for the account creation process, Facebook check whether the person is a bot or not by using a CAPTCHA.



Figure 1: Facebook CAPTCHA Verification

Then, Facebook does mobile verification to assess the user's identity.

facebook	۵	ownload your information	Log Out
facebook	Add a mobile number Add a mobile number Add a mobile number Extern subscription Extern number Extern number here lefs Facebook use it to help you log in, protect our community, accurately court people who use our services and assist you in accessing Facebook and op-in programmes. but not for purposes such as suggesting friends or providing ads. Only you will be used for other purposes including suggesting friends or providing ads.	ownload your information	Log Out
	Send Cod		

Figure 2: Facebook Mobile Verification

Finally, Facebook verifies the information provided, and only if it's valid, the account will be created otherwise the account will be disabled automatically.



Figure 3: Facebook Suspicious Alert

From the beginning of the year 2020, Facebook has changed its algorithm for checking fake account creation attempts. Trying to create accounts with names generated from sites will not work anymore. So, the names should look like real names.

Twitter

Twitter is a popular social networking microblogging service that allows registered members to broadcast short posts [27].

Creating a fake account on Twitter is easy compared to Facebook. Twitter does not have so many layers of protection to verify the user. In the first step, the user will be asked to provide Name and Phone number, but Twitter provides an alternate way to use email instead of the Phone number, so users can create many fake accounts using different fake emails. There's no captcha verification in the Twitter account creation process. The only verification done on twitter is by sending a 6-digit verification code to the email provided.

		Phone, email, or userna	ne Password	(Log in)
	÷	Next	Forgot password?	
	We sent you a code	*		
Q Follow your interests.	Didn't receive an email?		t's happening in d right now	
🔗 Hear what people are tall				
			ıy. Sign up	
About Help Center Terms Privacy policy	Cookies Ads info Blag Status Jobs Brand		is Directory Settings © 2020 Twitter, Inc.	

Figure 4: Twitter Verification

Then, the user will be only prompted to provide a password for the account. After that, the account will be created immediately.

Limitations of the Twitter platform includes not having a strong age verification system and ID verification system. This will result in users who are under 18 years old to create fake accounts as this raises some serious ethical concerns.

There are sites like boostmyfollowers.net [26] which can increase the follower count of any Instagram account for a certain price starting with 15 dollars for 200 followers to a maximum price of 600 dollars for 20000 followers.



Figure 5: Boost My Followers

Instagram

Instagram (also known informally as IG or Insta) is an American photo and video-sharing social networking service owned by Facebook, Inc [28]. Creating a fake account on Instagram is not as easy as it has been owned by Facebook. The same level of security can be found on Instagram also like Facebook.

Instagram needs an email or phone number, username, and password to create a fake account. If any of the entered information is taken from some sites, then Instagram algorithm considers it an unusual activity and then verifies the user with a two verification which is a CAPTCHA followed by a mobile number verification.



Figure 6: Instagram Mobile Verification

However, it was observed that Instagram does not verifies the mobile number in its system, it needs some number to verify the user is not a bot.

This specific flaw in Instagram can be used to create multiple fake accounts with multiple fake emails and a single mobile number. Instagram does not have an email verification system in place, which enables users to create accounts with any number of fake emails.

Instagram has an age verification system to provide users with the type of content they will be seeing within the platform. This content includes Ads, Videos and Images.

LinkedIn

LinkedIn is an American business and employment-oriented service which operates via web and mobile application [29]. This platform lets users search for jobs, and help recruiters find the right people for the job openings. This is mainly used for professional networking with people.

Fake account creation in LinkedIn is tricky unlike other platforms as this platform works based on a trust-based model between professionals. A lot of enrichment on User's skills, education, and other information has to be believable for the accounts to work on real people.

For creating a fake LinkedIn account, the users need to input email address and a password at first, then followed by a First name and Last name. In the next step, there will be a CAPTCHA or a mobile number SMS verification.



Figure 7: LinkedIn CAPTCHA Verification

Then the users will be able to onboard the platform easily. Since CAPTCHA or SMS verification are not very strong methods to verify users, many fake accounts can be created.

Finally, the analysis of the above platforms and security concerns can be summarized as follows,

Platform/Features	Email	Mobile	САРТСНА	Age	Custom
	Verification	Verification	Verification	Checks	Username
					Checks
Facebook	Yes	Yes	Yes	Yes	No
Instagram	Yes	Yes	Yes	Yes	No
Twitter	Yes	No	No	No	No
LinkedIn	No	Yes	Yes	No	No

Table 1: Comparative analysis of security in different platforms.

The above table shows a common problem across all platforms that if the attacker uses a completely non-existent username, one can easily create a fake account as the suspicious activity detection in these platforms won't be able to identify it. Similarly, having no age checks in the account creation process will lead to people of different age groups to create accounts and will be exposed to inappropriate content on the platforms. These were the main problems surrounding the flaws in these platforms.

It is important to note that the study has undertaken a different approach which is a manual way of creating fake accounts. However, other studies have used automated ways to create fake accounts. The study [35] focuses on an analysis of various tools, methods to generate fake accounts in an automated way. It particularly focuses on the different strategies, analysis of fake account creation, and discussion of ways to improve security measures in OSN. The study used 5 tools namely Twitter Account Creator bot (v2.0.0.6), FB Mass Account Generator (v4.0.0), PinMass (v4.0), FACreator (v1.0), and Account Creator Extreme (v4.2) [35]. Some of the features of these tools include support for email verification, CAPTCHA input, proxy support, security question bypass, multiple profiles, and automatic updates with the latest patches [35]. The study further concludes that many websites do not follow best practices when it comes to mass/bulk account creation and

proves that countermeasures such as reCAPTCHA [77] have been proven effective against automated ways of account creation. But manual ways can bypass even reCAPTCHA as its ultimately a human who will be creating the fake accounts instead of an automated tool.

2.2.2 Ethical Considerations in OSN Research

Studies in 2011 [70] show that psychologists encounter new dilemmas regarding ethical and professional principles due to the impact of social media and to remain relevant psychotherapy adapts to digital culture and maintains its values guided by ethical principles and historical values.

Another study [71] focuses on psychologists working with children and young people and how social media impacts the clinical treatments. The results show that there does not appear to be a clear consensus on how psychologists handle privacy and safety on the internet with underage clients and the series of ethical considerations and guidelines for professional practices have been proposed.

In a study from 2012 [74], Tristan Henderson, Luke Hutton, and Sam McNeilly talks about the ethics and online social network research and developing best practices. The study focuses on problems of how researchers from fields such as humanities and both physical and social sciences exploit the vast amount of data available in social media and what considerations need to be maintained when designing experiments in social media. The research further outlines the ethical concerns and focuses on developing best practices to mitigate such exploitations. The research proposes an architecture to enable ethical and privacy-sensitive social media experiments.

Online Social networks usually offer a large amount of data that is useful for research, but the line must be drawn on the data between which can be used for commercial purposes and academic purposes. When doing any research in OSN, the entities which are affected most are the 1. Users of the OSN, 2. Advertisers in OSN and 3. OSN operator. When researchers perform OSN research based on real-life evidence, eventually they will access some OSN data which may raise some ethical concerns. Yuval Elovici, Michael Fire, Amir Herzberg, Haya Shulman (2014) in their study focus on the ethical considerations when using fake identities in online social networks for research [1]. Their

study focuses on different taxonomy of the ethical challenges and comparison of different approaches.

From analyzing various studies, it can be seen that a specific guideline must be maintained when doing OSN research to mitigate ethical and privacy concerns.

2.3 Research Question, Goals & Limitations and Novelty

The study focuses on the problems in Online social networks (OSN) from a psychology perspective and how accounts in OSN impacts users. The study also covers the perspective of different demographics such as India, the US, and the UK. The main goal of this research is to understand the following research questions,

- 1. Which visual attributes of the fake accounts influence the people in trusting the account in countries like UK, USA, India?
- 2. How the way of user's usage influences the decisions in accepting the account at face value in countries like UK, USA, India?
- 3. What are the challenges faced when creating a fake account?
- 4. What kind of ethical considerations should be considered when creating a fake account and what not?

The goal of these questions is to understand why people make the decisions they make from a cyberpsychology perspective. The goals of the thesis are to understand which:

- 1. Visual characteristics of account influence the decision to accept the accounts(male/female) at face value whether it is real/fake.
- 2. Platform usage characteristics influence the decision to accept the accounts(male/female) at face value whether it is real/fake.

The limitation of the research is that it does not cover all the platforms but only a selective few such as Facebook, LinkedIn, Twitter and Instagram. This research will not focus on the detection of threats or fake accounts in online social networks. Instead it will be focusing on the working factors of the fake accounts on users and understanding how such accounts are accepted at face value by the users. The research is focused on users in countries such as India, USA and UK. The study has focused only on the human created fake accounts and will not be focusing on bots or any kind of automated accounts.

From the various previous studies related to fake accounts in online social networks, we can see that a lot of scenarios were focusing on the fake accounts detection and profiling them, a lot of these studies failed to address the creation of fake accounts, psychological factors and the ethical aspects of it. Also, the proposal of different studies was only focusing on the various methodologies to uncover the fake accounts in the online social networks.

It is clear that the root cause in the online social networks which are the fake accounts, how they are created, what factors make them psychologically work on actual people, what ethics are they breaking while doing so, all these have to be analyzed. The study of measuring the Face Value of fake accounts in Online Social networks by analyzing their creation, psychological factors and ethics will address the gap which most of the studies fail to and this will help in understanding the problem better from a different perspective. The novelty of the work includes analyzing the cognitive process of the users, cultural influences in decisions and user's usage influence in decisions. The next chapter shows the methodology used in this research.

3 Methodology

The research design has followed a quantitative approach to solve the research problem. The study has taken steps to research the problem, developed a data collection tool to gather data, and used Pearson correlation and multiple linear regression analysis for data analysis to test the hypothesis. The research method follows the following approaches:



Figure 8: Research Method Approach

Analysis of Fake Account creation & Challenges

The first step of the methodology involves creating fake accounts in online social networks. The study has selected platforms such as Facebook, Instagram, Twitter, and LinkedIn for the research. This phase of the methodology will be focusing on various techniques and hacks which the attacker will be using to create accounts on these platforms. This phase was already covered in the Background section 2.2.1 and it answers our research question 3,

RQ3: What are the challenges faced when creating a fake account?

Ethical considerations in Fake account creation process

In the second step of the methodology, the study will be focusing on the ethical considerations in the fake account process. This phase was also covered in the Background section to analyze the ethical considerations to look for in OSN research.

The study further analyzed the terms and conditions of fake accounts on platforms such as Facebook, Twitter, Instagram, and LinkedIn. Facebook's T&C shows that creating inauthentic profiles is against their community standards [79]. Twitter T&C shows that it checks the fake accounts based on impersonation policy and impersonated accounts will be automatically removed [80]. LinkedIn's T&C shows that the user cannot misrepresent their identity and it's a violation of rules [81]. Instagram's T&C shows that users are not allowed to impersonate others or provide inaccurate information [82]. By creating fake accounts on these platforms, the study has violated the rules of the platforms. However, the study has no motives other than to show that manual ways of fake account creation can defeat security measures employed by the OSN operators. The study used Non-copyrighted images (images used by anyone for personal and commercial intentions [86]) taken from sites like pixabay [84], unsplash [85], pexels [87], etc.

However, creating fake accounts, in general, raises ethical concerns. The following measures were done to make sure there are not any ethical concerns,

- 1. The study did not use any copyrighted materials such as pictures (for profile pictures or posts), video, or audio contents for creating the accounts and activity on the accounts.
- 2. The accounts created were purely fictional and did not resemble any real-world profiles or persons.
- 3. The accounts created were not used to interact with any real users, spread misinformation, or any activities.
- 4. The real users were informed about the study prior to making connections with their accounts from the fake accounts.
- 5. The study did not harvest any information from formed connections with fake accounts.
- 6. The accounts existed in the platforms for a very short time frame and the study has closed/deactivated all the fake accounts created for the research.
- 7. The accounts did not cause any interruptions to businesses in the platform or the OSN operators.

The above considerations from background 2.2.2 and ethical guidelines followed in the study answers our research question 4,

RQ4: What kind of ethical considerations should be considered when creating a fake account and what not?

Developing a Data Collection Tool

Initially, the questionnaire was developed and piloted with a group of peers to understand the challenges and limitations. Then to overcome the challenges and limitations, the questionnaire was further improved with the recommendations received from the expert in the field. The questionnaire has been structured in a way to collect responses for all four platforms such as Facebook, Instagram, Twitter, and LinkedIn. The questions of the questionnaire were focused on two main parts which are demographic questions and face value analysis questions. The face value analysis questions were categorized into two types as Visual characteristics and Platform Usage.

Questionnaire for users (all the questions were close-ended questions) shown as below sections,

(a) Account Probability

1. What is the probability of the above account being a fake? (Image 1: Account Male)

2. What is the probability of the above account being a fake? (Image 2: Account Female)

- (b) Visual Characteristics
 - 1. Will you be looking for anything else at the account that helps you determine the fakeness?
 - 2. Which characteristics were most important for your judgment? (Account Name, Profile Image, Short Bio etc.)
- (c) Platform Usage
 - 1. Do you use Facebook/Instagram/Twitter/LinkedIn?
 - How frequently do you use Facebook/Instagram/Twitter/LinkedIn? (Frequent Usage)

- How often do you see a lot of fake accounts in your daily usage on Facebook/Instagram/Twitter/LinkedIn? (Daily Usage)
- How does fake accounts influence your usage of Facebook/Instagram/Twitter/LinkedIn? (FA Influence)
- 5. Do you discuss or ask help to determine if one account is fake or not with anyone else? (FA Identification help)

The questions in the section (a) were focused on finding out the perception of the user whether the probability of the shown account(male/female) is fake or real. In section (b), the questions ask the users if they investigate the accounts, they see for fakeness and asks which characteristics influence their decision for questions in section (a). In section (c), the questions were focusing on asking the users if they use the platform frequently/daily and how many hours and how many times to analyze the relevance of user in the platform and asks them if they see a lot of fake accounts on their use and if they seek help when investigating a fake account to find out the influence in decision in section (a).

Data Collection

In the fourth step, the data has been collected through the survey method. The response to the structured questionnaire has been collected through online surveys (google forms). The data collection was carried out on a group size of age ranging between 18 to 25. Sharing the survey was done using convenience sampling. The survey has been shared with friends, families, OSN users, and the research community to get responses. To improve the quality of the sample group Snowball method was also used – people who participated shared the survey with their friends and acquaintances that met the criteria of country and age group.

The study has selected a sample size of around 10 - 100 people only on each platform to conduct the research. The sample size was calculated with a population size of 500, confidence level 95%, confidence interval 9 for the platforms Facebook and Instagram. The sample size was calculated with a population size of 500, confidence level 95%, confidence interval 14 for the platforms LinkedIn and Twitter.

Data Analysis

To observe and understand the target population the descriptive statistics were used to analyze the data. For the descriptive analysis and statistical tests, tools such as Splunk [72] and JASP [73] were used.

To identify the relationship between the variables, correlation matrix, and regression analysis was conducted. First, the Pearson correlations were done to find the correlation between the dependent and independent variables. Only the independent variables with strong correlation were selected for the regression test.

Pearson correlation

"A Pearson correlation is a number between -1 and 1 that indicates the extent to which two variables are linearly related "[44]. The Pearson correlation can also be known as the "product-moment correlation coefficient".

Pearson correlation values can range from -1 to 1. The presence of a relationship between two factors is primarily determined by this value.

- \cdot 0- No correlation
- -0.2 to 0/0 to 0.2 very weak negative/ positive correlation
- -0.4 to -0.2/0.2 to 0.4 weak negative/positive correlation
- -0.6 to -0.4/0.4 to 0.6 moderate negative/positive correlation
- -0.8 to -0.6/0.6 to 0.8 strong negative/positive correlation
- -1 to -0.8/0.8 to 1 very strong negative/positive correlation
- -1/1 perfectly negative/positive correlation

Pearson coefficient will always be '— 'or 1 because it represents the relationship between the same variable. For subsequent variables, Pearson's coefficient value will vary from - 1 to 1. The confidence interval used will be a default 95% with allowing a chance of only a 5% error in the results. The study will take only a weak negative/positive correlation and above for testing.

Hypothesis Testing

In statistics, Linear regression is usually a linear approach in modeling a relationship between a scalar response (dependent variable) and one or more explanatory variables (independent variables). Using more than one explanatory variable is called Linear Multiple regression [45]. The study has used Enter Regression [75] to find the results. The null hypothesis is not tested in this method. The Linear Multiple regression analysis was performed to test the following hypothesis.

Hypothesis 1: Visual characteristics of account influence the decision to accept the accounts at face value whether it is real/fake.

Hypothesis 2: Platform usage characteristics influence the decision to accept the accounts at face value whether it is real/fake.

The independent variables selected from the Pearson Coefficient test were regressed with the dependent variables to find the results for the hypothesis which will answer the following research questions,

RQ1: Which visual attributes of the fake accounts influence the people in trusting the account in countries like UK, USA, India?

RQ2: How the way of user's usage influences the decisions in accepting the account at face value in countries like UK, USA, India?

Limitations

The study has selected a sample size of around 10 - 100 people only on each platform to conduct the research. The selection of convenience sampling for the study has resulted in selection bias in the participants. The survey method was improved through a pilot study with selected participants. The survey did not get enough responses through convenience sampling in the beginning, then the snowball method was used to get more responses later. The OSN technologies used for the research are limited to Facebook, LinkedIn, Twitter, and LinkedIn because of the popularity of the platforms. The method has taken only the visual and usage characteristics of the individual account into for carrying out the methodology. It does not go deep into the social network connections, interaction with users, content, and activity of the accounts. The results will be compromised if the participants know that the accounts presented were fake, so this was not informed with the participants.
4 Results & Discussion

The survey was given out to people to collect responses for 20 days. The online survey was shared with various communities. The data has been analyzed for each OSN networks with hypothesis testing.

4.1 Overview of Participant's Background

From analyzing the problems and background in section 2.1, the study has selected the participants aged between 18 - 25. The response received from the participants on all platforms can be seen as follows,

Responses/Frequency(%)	Facebook	Instagram	Twitter	LinkedIn
India	123/25.78	98/25.65	30/26.08	44/25.14
United Kingdom	115/24.10	104/27.22	41/35.65	31/17.71
United States	113/23.68	89/23.29	16/13.91	45/25.71

Facebook/ Instagram/ Twitter/ LinkedIn:

Table 2: Descriptive analysis by Country for Facebook/Instagram/Twitter/LinkedIn

The responses indicate the number of people who participated in answering a question on each platform they use. The frequency indicates the percentage of successful responses from overall people who participated in the survey. Some general information of the participants obtained by the data shows different backgrounds such as gender, education, and if they work in IT or not. These different backgrounds will help in concluding the results in the later stage. The details of the below statistics can be found in Appendix D.

In India, statistics show that 53% of the participants are female and 45% are Male. The educational background of the participants comprised of 54% Bachelor's degree, 2% below high school, 9% with a high school degree, and 33% with a master's degree. Around 78% of the participants work in a Non-IT job and 21% work in an IT job.

In the UK, statistics show that 79% of the participants are female and 20% are Male. The educational background of the participants comprised of 74% Bachelor's degree, 1% below high school, 10% with a high school degree, and 14% with a master's degree. Around 91% of the participants work in a Non-IT job and 8% work in an IT job.

In the US, statistics show that 64% of the participants are female and 26% are Male. The educational background of the participants comprised of 47% Bachelor's degree, 2% below high school, 12% with a high school degree, and 29% with a master's degree. Around 80% of the participants work in a Non-IT job and 11% work in an IT job.

From analyzing the data from the three countries, it can be seen that female participants have a major contribution to the study and most participants have a bachelor's degree and seem to have a Non-IT job. So, the above statistics show that participants are biased to females who have a bachelor's degree and work in a Non-IT job.

4.2 Hypothesis Testing

4.2.1 Results from Hypothesis 1: (Visual Charactterisitics)

H1 Pearson Correlations for Facebook Users in India:

From the Figure 9 under Appendix F, the results of Pearson correlation coefficient for Facebook users in India on visual characteristics, we can interpret that variable account(male) has a very weak correlation with all the visual characteristics, therefore the study doesn't have evidence and will not carry out further regression test. For the variable account(female), there is a significant weak correlation with a variable short bio (r=0.229, p=0.031). So that will be taken for further regression test.

H1 Regression test for Facebook Accounts in India:

From Figure 10 under Appendix F, the table from linear regression analysis, the model fit output consists of the model summary and ANOVA table. The model summary includes multiple correlation coefficient R and its square R² and also the adjusted version of the coefficient s summary measures of the model fit.

We can see that the Linear Regression Coefficient R = 0.876 indicates that there is a strong correlation between the dependent variable Account (Female) and independent

variable Short Bio. In terms of variability, the value of $R^2 = 0.0.767$ or 76.7% explains the variability within the participants that 76% of the participants in the sample agree on the correlation between the two variables. Setting the confidence value at 95%, We can also observe from the ANOVA test that p<0.001 and F=289.617 which concludes that Account (Female) has a significant relation with Short Bio. From observing the coefficient, we can conclude that Short Bio and Account (Female) are positively correlated which means,

"If the relevance of short bio increases, then the probability of the user accepting the account as fake increases."

The above results show how the overall participants think. But repeating the above process for a deeper analysis on male and female participants shows that female participants are influenced by Account Name on Account (Male), where male participants had no influence.

Hence, this proves our hypothesis that visual characteristics influence the user in accepting the account whether it is real/fake.

H1 Pearson Correlations for Instagram Users in India:

From the Figure 11 under Appendix F, the results of Pearson correlation coefficient for Instagram users in India on visual characteristics, we can interpret that variable account(male) has significant weak correlation with variables Account Name(r=0.308, p=0.011) and Tagged Posts(r=0.259, p=0.033). For variable account(female), there is a significant weak correlation with variables Followers (r=0.348, p=0.004), posts (r=0.304, p=0.012), profile image (r=0.298, p=0.014), and tagged posts (r=0.308, p=0.011). The significantly correlated variables are taken for further test.

H1 Regression test for Instagram Accounts in India:

From the Figure 12 under Appendix F, we can see that the Linear Regression Coefficient R = 0.935 indicates that there is a strong correlation between the dependent variable Account(male) and independent variables Account Name and Tagged posts. In terms of variability, the value of $R^2 = 0.875$ or 87.5% explains the variability within the participants that 87% of the participants in the sample agree on the correlation between the two variables. Setting the confidence value at 95%, We can also observe from the

ANOVA test that p<0.001 and F=229.951 which concludes that Account(male) has a significant relation with Account Name and Tagged posts. From observing the coefficient, we can conclude that Account Name and Tagged posts and Account(male) are positively correlated which means,

"If the relevance of Account Name and Tagged posts increases, then the probability of the user accepting the account as fake increases."

From the Figure 13 under Appendix F, we can see that the Linear Regression Coefficient R = 0.940 indicates that there is a strong correlation between the dependent variable Account(female) and independent variables Followers, Posts, Profile Image, and Tagged Posts. In terms of variability, the value of $R^2 = 0.884$ or 88.4% explains the variability within the participants that 88% of the participants in the sample agree on the correlation between the two variables. Setting the confidence value at 95%, We can also observe from the ANOVA test that p<0.001 and F=122.073 which concludes that Account(female) has a significant relation with Followers, Posts, Profile Image, and Tagged Posts. From observing the coefficient, we can conclude that Posts and Profile Image are 'not significant' but Followers and Tagged posts and Account (Female) are positively correlated which means,

"If the relevance of Followers and Tagged posts increases, then the probability of the user accepting the account as fake increases."

The above results show how the overall participants think. But repeating the above process for a deeper analysis of male and female participants shows that there's no influence.

Hence, this proves our hypothesis that visual characteristics influence the user in accepting the account whether it is real/fake.

H1 Pearson Correlations for LinkedIn Users in India:

From the Figure 14 under Appendix F, the results of Pearson correlation coefficient for LinkedIn users in India on visual characteristics, we can interpret that variable account(male) has significant strong correlation with variable Account Name(r=-0.617, p<0.001) and significant moderate correlation with variable Skills(r=-0.413, p=0.029). For variable Account(Female), we can interpret that variable About(r=-0.640, p<0.001),

Education(r=-0.698, p<0.001) and Experience(r=-0.615, p<0.001) has significant strong correlation, while Skills(r=-0.514, p=0.005) and Companies worked/working for(r=-0.580, p=0.001) has significant moderate correlation. The significantly correlated variables are taken for further test.

H1 Regression test for LinkedIn Accounts in India:

From the Figure 15 under Appendix F, we can see that the Linear Regression Coefficient R = 0.831 indicates that there is a strong correlation between the dependent variable Account(male) and independent variables Skills and Account Name. In terms of variability, the value of $R^2 = 0.691$ or 69.1% explains the variability within the participants that 69% of the participants in the sample agree on the correlation between the two variables. Setting the confidence value at 95%, We can also observe from the ANOVA test that p<0.001 and F=29.064 which concludes that Account(male) has a significant relation with Skills and Account Name. From observing the coefficient, we can conclude that Skills is 'not significant' but Account Name and Account(male) are positively correlated which means,

"If the relevance of Account Name increases, then the probability of the user accepting the account as fake increases."

From the Figure 16 under Appendix F, we can see that the Linear Regression Coefficient R = 0.819 indicates that there is a strong correlation between the dependent variable Account (Female) and independent variables About, Experience, Education, Skills and Companies worked/working for. In terms of variability, the value of $R^2 = 0.671$ or 67.1% explains the variability within the participants that 67% of the participants in the sample agree on the correlation between the two variables. Setting the confidence value at 95%, We can also observe from the ANOVA test that p<0.001 and F=9.368 which concludes that Account (Female) has a significant relation with Skills and Account Name. From observing the coefficient, we can conclude that About, Experience, Education, Skills are 'not significant' but Companies worked/working for and Account (Female) are positively correlated which means,

"If the relevance of Companies worked/working for increases, the probability of the user accepting the account as fake increases."

The above results show how the overall participants think. But repeating the above process for a deeper analysis on male and female participants shows that female participants are influenced by Connections on Account (Male), while male participants are influenced by Account Name on Account (Male).

Hence, this proves our hypothesis that visual characteristics influence the user in accepting the account whether it is real/fake.

H1 Pearson Correlations for Twitter Users in India:

From the results obtained Pearson correlation coefficient for Twitter users in India on visual characteristics, we can interpret that variable account(male) and account(female) has no significant correlation with any characteristics variables. So, no further tests can be done.

The above results show how the overall participants think. But repeating the above process for a deeper analysis of male and female participants shows male participants are influenced by tagged tweets on Account (Female).

Hence, this proves our hypothesis that visual characteristics influence the user in accepting the account whether it is real/fake.

H1 Pearson Correlation for Facebook Users in UK:

From Figure 17 under Appendix F, the results of the Pearson correlation coefficient for Facebook users in the UK on visual characteristics, we can interpret that variable account(male) has no significant correlation. But for variable account(female), there is a significant weak correlation with variables Life Events (r=-0.243, p=0.020) and Profile Image (r=0.324, p=0.002). The significantly correlated variables are taken for further test.

H1 Regression test for Facebook Accounts in UK:

From Figure 18 under Appendix F, the table from linear regression analysis, the model fit output consists of the model summary and ANOVA table. The model summary includes multiple correlation coefficient R and its square R² and also the adjusted version of the coefficient s summary measures of the model fit.

We can see that the Linear Regression Coefficient R = 0.954 indicates that there is a strong correlation between the dependent variable Account (Female) and independent variables Life Events and Profile Image. In terms of variability, the value of $R^2 = 0.910$ or 91% explains the variability within the participants that 91% of the participants in the sample agree on the correlation between the two variables. Setting the confidence value at 95%, We can also observe from the ANOVA test that p<0.001 and F=450.167 which concludes that Account (Female) has a significant relation with Life Events and Profile Image. From observing the coefficient, we can conclude that Life Events is 'not significant' but Profile Image and Account (Female) are positively correlated which means,

"If the relevance of Profile Image increases, then the probability of the user accepting the account as fake increases."

The above results show how the overall participants think. But repeating the above process for a deeper analysis on male and female participants shows that female participants are influenced by Life events and Profile images on Account (Female), while male participants are influenced by Profile image on Account (Female).

Hence, this proves our hypothesis that visual characteristics influence the user in accepting the account whether it is real/fake.

H1 Pearson Correlation for Instagram Users in UK:

From Figure 19 under Appendix F, the results of the Pearson correlation coefficient for Instagram users in the UK on visual characteristics, we can interpret that variable account(male) has no significant correlation. For variable account(female), there is a significant weak correlation with variable Following (r=0.241, p=0.046). The significantly correlated variables are taken for further test.

H1 Regression test for Instagram Accounts in UK:

From Figure 20 under Appendix F, we can see that the Linear Regression Coefficient R = 0.897 indicates that there is a strong correlation between the dependent variable Account (Female) and independent variable Following. In terms of variability, the value of $R^2 = 0.805$ or 80% explains the variability within the participants that 80% of the participants in the sample agree on the correlation between the two variables. Setting the confidence value at 95%, We can also observe from the ANOVA test that p<0.001 and F=280.354 which concludes that Account (Female) has a significant relation with Following. From observing the coefficient, we can conclude Following and Account (Female) are positively correlated which means,

"If the relevance of Following increases, then the probability of the user accepting the account as fake increases."

The above results show how the overall participants think. But repeating the above process for a deeper analysis on male and female participants shows that male participants are influenced by Following on Account (Male) and Followers on Account (Female), but there's no influence on female participants.

Hence, this proves our hypothesis that visual characteristics influence the user in accepting the account whether it is real/fake.

H1 Pearson Correlation for LinkedIn Users in UK:

From Figure 21 under Appendix F, the results of the Pearson correlation coefficient for LinkedIn users in the UK on visual characteristics, we can interpret that variable account(male) has no significant correlation. But for a variable account(female), there is a significant moderate correlation with variable others named same name. The significantly correlated variables are taken for further test.

H1 Regression test for LinkedIn Accounts in UK:

From Figure 22 under Appendix F, we can see that the Linear Regression Coefficient R = 0.916 indicates that there is a strong correlation between the dependent variable Account (Female) and independent variable Others Named Same Name. In terms of variability, the value of $R^2 = 0.839$ or 83.9% explains the variability within the participants that 83% of the participants in the sample agree on the correlation between the two variables. Setting the confidence value at 95%, We can also observe from the ANOVA test that p<0.001 and F=73.073 which concludes that Account (Female) has a significant relation with Others Named Same Name. From observing the coefficient, we can conclude Others Named Same Name and Account (Female) are positively correlated which means,

"If the relevance of Others Named Same Name increases, then the probability of the user accepting the account as fake increases."

The above results show how the overall participants think. But repeating the above process for a deeper analysis on male and female participants shows female participants are influenced by Skills on Account (Male), while male participants are influenced by Badges on Account (Female).

Hence, this proves our hypothesis that visual characteristics influence the user in accepting the account whether it is real/fake.

H1 Pearson Correlation for Twitter Users in UK:

From Figure 23 under Appendix F, the results of the Pearson correlation coefficient for Twitter users in the UK on visual characteristics, we can interpret that variable account(female) has a significant moderate correlation with variables Followers(r=0.418, p=0.047) and Short bio(r=0.537, p=0.014). But for variable account(male), there is a significant strong correlation with variable Followers (r=0.697, p<0.001) and significant moderate correlation with Short bio (r=0.537, p=0.008). The significantly correlated variables are taken for further test.

H1 Regression test for Twitter Accounts in UK:

From the Figure 24 under Appendix F, we can see that the Linear Regression Coefficient R = 0.969 indicates that there is a strong correlation between the dependent variable Account (Female) and independent variable Followers and Short Bio. In terms of variability, the value of $R^2 = 0.938$ or 93.8% explains the variability within the participants that 93% of the participants in the sample agree on the correlation between the two variables. Setting the confidence value at 95%, We can also observe from the ANOVA test that p<0.001 and F=159.675 which concludes that Account (Female) has a significant relation with Followers and Short Bio. From observing the coefficient, we can conclude Followers and Short Bio and Account (Female) are positively correlated which means,

"If the relevance of Followers and Short Bio increases, then the probability of the user accepting the account as fake increases."

From the Figure 25 under Appendix F, we can see that the Linear Regression Coefficient R = 0.976 indicates that there is a strong correlation between the dependent variable Account(male) and independent variable Followers and Short Bio. In terms of variability, the value of $R^2 = 0.952$ or 95.2% explains the variability within the participants that 95% of the participants in the sample agree on the correlation between the two variables. Setting the confidence value at 95%, We can also observe from the ANOVA test that p<0.001 and F=209.254 which concludes that Account(male) has a significant relation with Followers and Short Bio. From observing the coefficient, we can conclude Followers and Short Bio and Account(male) are positively correlated which means,

"If the relevance of Followers and Short Bio increases, then the probability of the user accepting the account as fake increases."

The above results show how the overall participants think. But repeating the above process for a deeper analysis of male and female participants shows that both male and female participants are influenced by Followers on Account (Male).

Hence, this proves our hypothesis that visual characteristics influence the user in accepting the account whether it is real/fake.

H1 Pearson Correlation for Facebook Users in US:

From Figure 26 under Appendix F, the results of the Pearson correlation coefficient for Facebook users in the USA on visual characteristics, we can interpret that variable account(female) has a significant weak correlation with variable Short bio (r=-0.248, p=0.018). But for variable account(male), there is a significant weak correlation with variables Life Events (r=-0.337, p=0.001), Short Bio (r=0.222, p=0.036) and Comments/Like (r=0.332, p=0.001). The significantly correlated variables are taken for further test.

H1 Regression test for Facebook Accounts in US:

From Figure 27 under Appendix F, the table from linear regression analysis, the model fit output consists of the model summary and ANOVA table. The model summary includes multiple correlation coefficient R and its square R² and also the adjusted version of the coefficient s summary measures of the model fit.

We can see that the Linear Regression Coefficient R = 0.828 indicates that there is a strong correlation between the dependent variable Account (Female) and independent variable Short Bio. In terms of variability, the value of $R^2 = 0.686$ or 68.6% explains the variability within the participants that 68% of the participants in the sample agree on the correlation between the two variables. Setting the confidence value at 95%, We can also observe from the ANOVA test that p<0.001 and F=194.177 which concludes that Account (Female) has a significant relation with Short Bio. From observing the coefficient, we can conclude Short Bio and Account (Female) are positively correlated which means,

"If the relevance of Short Bio increases, then the probability of the user accepting the account as fake increases."

From the Figure 28 under Appendix F, we can see that the Linear Regression Coefficient R = 0.927 indicates that there is a strong correlation between the dependent variable Account(male) and independent variable Short Bio, Life events and Comments/Like. In terms of variability, the value of $R^2 = 0.859$ or 85.9% explains the variability within the participants that 85% of the participants in the sample agree on the correlation between the two variables. Setting the confidence value at 95%, We can also observe from the ANOVA test that p<0.001 and F=194.177 which concludes that Account(male) has a significant relation with Short Bio, Life events, and Comments/Like. From observing the coefficient, we can conclude Short Bio and Life Events are 'not significant' but Comments/Like and Account(male) are positively correlated which means,

"If the relevance of Comments/Like increases, then the probability of the user accepting the account as fake increases."

The above results show how the overall participants think. But repeating the above process for a deeper analysis on male and female participants shows that female participants are influenced by Comments/likes on Account (Male), while male participants are influenced by Life events on Account (Male).

Hence, this proves our hypothesis that visual characteristics influence the user in accepting the account whether it is real/fake.

H1 Pearson Correlation for Instagram Users in US:

From the Figure 29 under Appendix F, the results of Pearson correlation coefficient for Instagram users in USA on visual characteristics, we can interpret that variable account(female) has significant weak correlation with variables Followers(r=0.366, p=0.005), Posts(r=0.307, p=0.019) and Tagged Posts(r=0.307, p=0.019). But for variable account(male), there is a significant weak correlation with variables Followers (r=0.296, p=0.332) and Following (r=0.332, p=0.011). The significantly correlated variables are taken for further test.

H1 Regression test for Instagram Accounts in US:

From the Figure 30 under Appendix F, we can see that the Linear Regression Coefficient R = 0.946 indicates that there is a strong correlation between the dependent variable Account(male) and independent variable Followers and Following. In terms of variability, the value of $R^2 = 0.895$ or 89.5% explains the variability within the participants that 89% of the participants in the sample agree on the correlation between the two variables. Setting the confidence value at 95%, We can also observe from the ANOVA test that p<0.001 and F=238.232 which concludes that Account(male) has a significant relation with Followers and Following. From observing the coefficient, we can conclude Following is 'not significant' but Followers and Account(male) are positively correlated which means,

"If the relevance of Followers increases, then the probability of the user accepting the account as fake increases."

From Figure 31 under Appendix F, we can see that the Linear Regression Coefficient R = 0.949 indicates that there is a strong correlation between the dependent variable Account (Female) and independent variable Posts, Followers, and Tagged Posts. In terms of variability, the value of $R^2 = 0.900$ or 90% explains the variability within the participants that 90% of the participants in the sample agree on the correlation between the two variables. Setting the confidence value at 95%, We can also observe from the ANOVA test that p<0.001 and F=165.642 which concludes that Account (Female) has a significant relation with Posts, Followers, and Tagged Posts. From observing the coefficient, we can conclude Posts and Tagged Posts are 'not significant but Followers and Account (Female) are positively correlated which means,

"If the relevance of Followers increases, then the probability of the user accepting the account as fake increases."

The above results show how the overall participants think. But repeating the above process for a deeper analysis on male and female participants shows that female participants are influenced by Following on Account (Male) and male participants are influenced by Followers on Account (Female).

Hence, this proves our hypothesis that visual characteristics influence the user in accepting the account whether it is real/fake.

H1 Pearson Correlation for LinkedIn Users in US:

From Figure 32 under Appendix F, the results of the Pearson correlation coefficient for LinkedIn users in the USA on visual characteristics, we can interpret that variable account(female) has a significant moderate correlation with variable Companies worked/working for (r=-0.440, p=0.019). But for variable account(male), there is a significant weak correlation with variable location (r=0.394, p=0.038). The significantly correlated variables are taken for further test.

H1 Regression test for LinkedIn Accounts in US:

From the Figure 33 under Appendix F, we can see that the Linear Regression Coefficient R = 0.828 indicates that there is a strong correlation between the dependent variable Account (Female) and independent variable Companies worked/working for. In terms of variability, the value of $R^2 = 0.685$ or 68.5% explains the variability within the participants that 68% of the participants in the sample agree on the correlation between the two variables. Setting the confidence value at 95%, We can also observe from the ANOVA test that p<0.001 and F=58.663 which concludes that Account (Female) has a significant relation with Companies worked/working for. From observing the coefficient, we can conclude Companies worked/working for and Account (Female) are positively correlated which means,

"If the relevance of Companies worked/working for increases, then the probability of the user accepting the account as fake increases."

From Figure 34 under Appendix F, we can see that the Linear Regression Coefficient R = 0.884 indicates that there is a strong correlation between the dependent variable Account(male) and independent variable Location. In terms of variability, the value of R^2 = 0.782 or 78.2% explains the variability within the participants that 78% of the participants in the sample agree on the correlation between the two variables. Setting the confidence value at 95%, We can also observe from the ANOVA test that p<0.001 and F=96.666 which concludes that Account(male) has a significant relation with Location. From observing the coefficient, we can conclude Location and Account(male) are positively correlated which means,

"If the relevance of Location increases, then the probability of the user accepting the account as fake increases."

The above results show how the overall participants think. But repeating the above process for a deeper analysis of male and female participants shows no influence.

Hence, this proves our hypothesis that visual characteristics influence the user in accepting the account whether it is real/fake.

H1 Pearson Correlation for Twitter Users in US:

From the Figure 35 under Appendix F, the results of Pearson correlation coefficient for Twitter users in the USA on visual characteristics, we can interpret that variable account(female) has a significantly strong correlation with variable Posts(r=0.602, p=0.014) and a significant moderate correlation with variable Account Name(r=0.571, p=0.021). But there no significant correlation between variable account(male) and other visual characteristics variables. The significantly correlated variables are taken for further test.

H1 Regression test for Twitter Accounts in US:

From the Figure 36 under Appendix F, we can see that the Linear Regression Coefficient R = 0.975 indicates that there is a strong correlation between the dependent variable Account (Female) and independent variable Posts and Account Name. In terms of variability, the value of $R^2 = 0.950$ or 95% explains the variability within the participants that 95% of the participants in the sample agree on the correlation between the two variables. Setting the confidence value at 95%, We can also observe from the ANOVA

test that p<0.001 and F=134.009 which concludes that Account (Female) has a significant relation with Posts and Account Name. From observing the coefficient, we can conclude Account Name is 'not significant' but Posts and Account (Female) are positively correlated which means,

"If the relevance of Posts for increases, the probability of the user accepting the account as fake increases."

The above results show how the overall participants think. But repeating the above process for a deeper analysis of male and female participants shows that female participants are influenced by posts on Account (Female).

Hence, this proves our hypothesis that visual characteristics influence the user in accepting the account whether it is real/fake.

4.2.2 Results from Hypothesis 2: (Usage Characteristics)

H2 Pearson Correlation for Facebook Users in India:

From Figure 37 under Appendix F, the results of the Pearson correlation coefficient for Facebook users in India on usage characteristics, we can interpret that variable account(female) has no significant correlation with any usage characteristics variables. But variable account(male) has a significant weak correlation with variable FA Influence (r=0.228, p=0.032). The significantly correlated variables are taken for further test.

H2 Regression test for Facebook Accounts in India:

From Figure 38 under Appendix F, the table from linear regression analysis, the model fit output consists of the model summary and ANOVA table. The model summary includes multiple correlation coefficient R and its square R² and also the adjusted version of the coefficient s summary measures of the model fit.

We can see that the Linear Regression Coefficient R = 0.823 indicates that there is a strong correlation between the dependent variable Account(male) and independent variable FA Influence. In terms of variability, the value of $R^2 = 0.677$ or 67.7% explains the variability within the participants that 67% of the participants in the sample agree on

the correlation between the two variables. Setting the confidence value at 95%, We can also observe from the ANOVA test that p<0.001 and F=184.625 which concludes that Account(male) has a significant relation with FA Influence. From observing the coefficient, we can conclude FA Influence and Account(male) are positively correlated which means,

"If the relevance of FA Influence increases, then the probability of the user accepting the account as fake increases."

The above results show how the overall participants think. But repeating the above process for a deeper analysis on male and female participants shows that female participants are influenced by FA Influence on Account (Male), while there's no influence of usage characteristics on male participants.

Hence, this proves our hypothesis that usage characteristics influence the user in accepting the account whether it is real/fake.

H2 Pearson Correlation for Instagram Users in India:

From the Figure 39 under Appendix F, the results of Pearson correlation coefficient for Instagram users in India on usage characteristics, we can interpret that variable account(female) has a significant weak correlation on variables Daily usage(r=0.299, p=0.013) and Frequent usage(r=0.261, p=0.032), where the variable account(male) has no significant correlation. The significantly correlated variables are taken for further test.

H2 Regression test for Instagram Accounts in India:

From Figure 40 under Appendix F, we can see that the Linear Regression Coefficient R = 0.933 indicates that there is a strong correlation between the dependent variable Account (Female) and independent variable Frequent usage and Daily usage. In terms of variability, the value of $R^2 = 0.870$ or 87% explains the variability within the participants that 87% of the participants in the sample agree on the correlation between the two variables. Setting the confidence value at 95%, We can also observe from the ANOVA test that p<0.001 and F=221.106 which concludes that Account (Female) has a significant relation with Frequent usage and Daily usage. From observing the coefficient, we can conclude Frequent usage and Daily usage and Account (Female) are positively correlated which means,

"If the relevance of Frequent usage and Daily usage increases, the probability of the user accepting the account as fake increases."

The above results show how the overall participants think. But repeating the above process for a deeper analysis on male and female participants shows that female participants are influenced by FA Identification help on Account (Male) and male participants are influenced by FA Identification help on Account (Female).

Hence, this proves our hypothesis that usage characteristics influence the user in accepting the account whether it is real/fake.

H2 Pearson Correlation for LinkedIn Users in India:

From the Figure 41 under Appendix F, the results of Pearson correlation coefficient for LinkedIn users in India on usage characteristics, we can interpret that variable account(female) has a significant weak correlation with variable FA Identification help(r=0.382, p=0.045) and has a significant moderate correlation with variable FA Influence(r=0.431, p=0.022). The variable account(male) has no significant correlation. The significantly correlated variables are taken for further test.

H2 Regression test for LinkedIn Accounts in India:

From the Figure 42 under Appendix F, we can see that the Linear Regression Coefficient R = 0.849 indicates that there is a strong correlation between the dependent variable Account (Female) and independent variable FA Influence and FA Identification help. In terms of variability, the value of $R^2 = 0.721$ or 72% explains the variability within the participants that 72% of the participants in the sample agree on the correlation between the two variables. Setting the confidence value at 95%, We can also observe from the ANOVA test that p<0.001 and F=33.624 which concludes that Account (Female) has a significant relation with FA Influence and FA Identification help. From observing the coefficient, we can conclude Frequent usage and Daily usage are 'not significant'.

The above results show how the overall participants think. But repeating the above process for a deeper analysis of male and female participants shows no influence.

Hence, this does not prove our hypothesis that usage characteristics influence the user in accepting the account whether it is real/fake.

H2 Pearson Correlation for Twitter Users in India:

From Figure 43 under Appendix F, the results of the Pearson correlation coefficient for Twitter users in India on usage characteristics, we can interpret that variable account(male) has a significant moderate correlation with variable Daily Usage (r=0.544, p=0.020). But variable account(female) has significant strong correlation with variables Daily Usage (r=0.705, p=0.001), FA Identification help (r=0.639, p=0.004) and FA Influence (r=0.618, p=0.006). The significantly correlated variables are taken for further test.

H2 Regression test for Twitter Accounts in India:

From the Figure 44 under Appendix F, we can see that the Linear Regression Coefficient R = 0.872 indicates that there is a strong correlation between the dependent variable Account(male) and independent variable Daily usage. In terms of variability, the value of $R^2 = 0.760$ or 76% explains the variability within the participants that 76% of the participants in the sample agree on the correlation between the two variables. Setting the confidence value at 95%, We can also observe from the ANOVA test that p<0.001 and F=53.731which concludes that Account(male) has a significant relation with Daily usage. From observing the coefficient, we can conclude Daily usage and Account(male) are positively correlated which means,

"If the relevance of Daily usage increases, the probability of the user accepting the account as fake increases."

From the Figure 45 under Appendix F, we can see that the Linear Regression Coefficient R = 0.899 indicates that there is a strong correlation between the dependent variable Account (Female) and independent variable FA Influence, FA Identification help, and Daily Usage. In terms of variability, the value of $R^2 = 0.808$ or 80% explains the variability within the participants that 80% of the participants in the sample agree on the correlation between the two variables. Setting the confidence value at 95%, We can also observe from the ANOVA test that p<0.001 and F=21.036 which concludes that Account (Female) has a significant relation with FA Influence, FA Identification help, and Daily Usage. From observing the coefficient, we can conclude FA Influence, FA Identification help, and Daily Usage are 'not significant'.

The above results show how the overall participants think. But repeating the above process for a deeper analysis of male and female participants shows that male participants are influenced by Daily usage on Account (Male).

Hence, this proves our hypothesis that usage characteristics influence the user in accepting the account whether it is real/fake.

H2 Pearson Correlation for Facebook/ LinkedIn/ Twitter Users in UK:

From the results of the Pearson correlation coefficient for Facebook/LinkedIn/Twitter users in the UK on usage characteristics, we can interpret that variable account(male) and variable account(female) has no significant correlation with usage characteristics variables. So, no further tests can be done.

Hence, this does not prove our hypothesis that usage characteristics influence the user in accepting the account whether it is real/fake.

H2 Pearson Correlation for Instagram Users in UK:

From the results of the Pearson correlation coefficient for Instagram users in the UK on usage characteristics, we can interpret that variable account(male) and variable account(female) has no significant correlation with usage characteristics variables. So, no further tests can be done.

The above results show how the overall participants think. But repeating the above process for a deeper analysis of male and female participants shows that male participants are influenced by FA influence on Account (Male) on Instagram.

Hence, this proves our hypothesis that usage characteristics influence the user in accepting the account whether it is real/fake.

H2 Pearson Correlation for Facebook Users in US:

From the results obtained from the Pearson correlation coefficient for Facebook users in the USA on usage characteristics, we can interpret that variable account(male) and variable account(female) has no significant correlation with usage Characteristics variables. So, no further tests can be done. The above results show how the overall participants think. But repeating the above process for a deeper analysis of male and female participants shows that male participants are influenced by Frequent usage on Account (Male), while there's no influence on female participants.

Hence, this does prove our hypothesis that usage characteristics influence the user in accepting the account whether it is real/fake.

H2 Pearson Correlation for Instagram Users in US:

From Figure 46 under Appendix F, the results of the Pearson correlation coefficient for Instagram users in the USA on usage characteristics, we can interpret that variable account(male) has no significant correlation. But variable account(female) has significant weak correlation with variables Daily Usage (r=0.459, p<0.001), and has significant moderate correlation with variables FA Identification Help (r=0.261, p=0.048) and Frequent Usage (r=0.421, p<0.001). The significantly correlated variables are taken for further test.

H2 Regression test for Instagram Accounts in US:

From Figure 47 under Appendix F, the table from linear regression analysis, the model fit output consists of a model summary and ANOVA table. The model summary includes multiple correlation coefficient R and its square R² and also the adjusted version of the coefficient s summary measures of the model fit.

We can see that the Linear Regression Coefficient R = 0.957 indicates that there is a strong correlation between the dependent variable Account (Female) and independent variable Daily Usage, Frequent Usage, and FA Identification help. In terms of variability, the value of $R^2 = 0.916$ or 91.6% explains the variability within the participants that 91% of the participants in the sample agree on the correlation between the two variables. Setting the confidence value at 95%, We can also observe from the ANOVA test that p<0.001 and F=200.194 which concludes that Account (Female) has a significant relation with Daily Usage, Frequent Usage, and FA Identification help. From observing the coefficient, we can conclude FA Identification is 'not significant' but Daily Usage, Frequent Usage, and Account (Female) are positively correlated which means,

"If the relevance of Daily Usage and Frequent Usage increases, then the probability of the user accepting the account as fake increases."

The above results show how the overall participants think. But repeating the above process for a deeper analysis on male and female participants shows female participants are influenced by Daily usage on both Account (Male) and Account (Female), while male participants are influenced by Frequent usage on Account (Female).

Hence, this proves our hypothesis that usage characteristics influence the user in accepting the account whether it is real/fake.

H2 Pearson Correlation for LinkedIn Users in US:

From the Figure 48 under Appendix F, the results of Pearson correlation coefficient for LinkedIn users in USA on usage characteristics, we can interpret that variable account(female) has significant moderate correlation with variable FA Influence(r=0.453, p=0.015) and variable account(male) has significant correlation with variable Frequent Usage(r=-0.391, p=0.040). The significantly correlated variables are taken for further test.

H2 Regression test for LinkedIn Accounts in US:

From the Figure 49 under Appendix F, we can see that the Linear Regression Coefficient R = 0.829 indicates that there is a strong correlation between the dependent variable Account (Female) and independent variable FA Influence. In terms of variability, the value of $R^2 = 0.687$ or 68.7% explains the variability within the participants that 68% of the participants in the sample agree on the correlation between the two variables. Setting the confidence value at 95%, We can also observe from the ANOVA test that p<0.001 and F=59.353 which concludes that Account (Female) has a significant relation with FA Influence. From observing the coefficient, we can conclude FA Influence and Account (Female) are positively correlated which means,

"If the relevance of FA Influence increases, then the probability of the user accepting the account as fake increases."

From the Figure 50 under Appendix F, we can see that the Linear Regression Coefficient R = 0.781 indicates that there is a strong correlation between the dependent variable Account(male) and independent variable Frequent Usage. In terms of variability, the

value of $R^2 = 0.610$ or 61% explains the variability within the participants that 61% of the participants in the sample agree on the correlation between the two variables. Setting the confidence value at 95%, We can also observe from the ANOVA test that p<0.001 and F=42.265 which concludes that Account(male) has a significant relation with Frequent Usage. From observing the coefficient, we can conclude Frequent Usage and Account(male) are positively correlated which means,

"If the relevance of Frequent Usage increases, then the probability of the user accepting the account as fake increases."

The above results show how the overall participants think. But repeating the above process for a deeper analysis of male and female participants shows no influence.

Hence, this proves our hypothesis that usage characteristics influence the user in accepting the account whether it is real/fake.

H2 Pearson Correlation for Twitter Users in US:

From the results obtained from the Pearson correlation coefficient for Twitter users in the USA on usage characteristics, we can interpret that variable account(male) and variable account(female) has no significant correlation with usage characteristics variables. So, no further tests can be done.

The above results show how the overall participants think. But repeating the above process for a deeper analysis of male and female participants shows that female participants are influenced by FA influence on Account (Male) and Account (Female).

Hence, this proves our hypothesis that usage characteristics influence the user in accepting the account whether it is real/fake.

The overall results from the hypothesis can be found in the Appendix – E section.

4.3 Discussion

The aim of the study was to understand if visual and usage characteristics influence the user's decision in accepting the accounts at face value. The study used the Pearson correlation coefficient and Multiple linear regression analysis to solve the hypothesis which gives the results to our research questions 1 & 2,

RQ1: Which visual attributes of the fake accounts influence the people in trusting the account in countries like UK, USA, India?

To answer the first research question, the hypothesis 1 has been done and the correlated results were presented as follows,

	India	UK	US
Which visual attributes of the fake accounts influence the people in trusting the account in countries like UK, USA, India?	India Facebook – Short Bio Instagram – Account Name, Tagged Posts and Followers LinkedIn – Account Name and Companies worked/working for Twitter – No	UK Facebook – Profile Image Instagram – Following LinkedIn – Others named Same Name Twitter – Followers & Short Bio	US Facebook – Comments/Likes and Short Bio Instagram – Followers LinkedIn – Location and Companies worked/working for Twitter – Posts
	Influence		

Table 3: Correlated Results from different countries on Visual Attributes.

The study can inference from the above-presented results that in India short bio matters for Facebook when valuing an account at face value wherein Instagram, LinkedIn, and Twitter, it doesn't seem to be the case. Taking a look back at the participants in India from section 4.1, we can observe the pattern short bio is important for 53% of the female participants when accepting an account. In the UK, People look at Profile image on Facebook when accepting an account and particularly the case for the 79% of the female participants in the study. In the US, people look at Comments/likes and short bio of an account. In the US and India, people seem to look at short bio, this is possible due to a large number of Internet usage in both the countries and young people have a lot of internet activity. So, young people in the US and India focus mostly on the description attributes on the account, where the UK focus on the graphic elements like Profile Image. So, comparatively young people in the US investigate the accounts for more attributes on Facebook than India and the UK.

On Instagram, people in India seem to give more importance to Account Name, tagged posts, and followers, and they look for account name also on LinkedIn. In the UK, people look at the following and, in the US, people look at followers. People in India and the US both look at followers for accepting an account. The patterns explain that people in the US and India analyze the social friend's circle and people close to the user's account in order to validate their originality. So, comparatively young people in India investigate the accounts for more attributes on Instagram than the US and UK.

In LinkedIn, people in India look at Account Name & Companies worked/working for, wherein the UK, people look at Others Named same name, and people in the US look for a location as they have the opportunities to look for jobs in different states and companies worked/working for. Similarities can be found between the US and India as both countries have a large number of young population and young people looking at companies worked/working to accept accounts. This is due to the fact that young people are the ones who look for jobs in LinkedIn and look for relevance like companies to find connections to get into jobs. This pattern can be observed in India and the US for young people on LinkedIn.

In Twitter, no influence can be found in India, this is possibly due to the small sample size of the participants the study has taken. Where people in the UK, look at followers and short bio but in the US, people look at posts. The pattern suggests that people in the UK investigate more on twitter.

While comparing all three countries on visual attributes, short bio and followers seem to have an important impact in deciding to accept the accounts as this explains the fact that people are keener to look into understanding a person's personality and their likes/dislikes through a short bio and analyzing the person's friends circle and people the person know to find relevance to accept the account by looking at followers.

The study further did a deeper analysis to find out how the male and female participants think in each country, and the results are summarized as follows,

Which visual	India	UK	US
attributes of the			
fake accounts			
influence the			
people in trusting			
the account in			
countries like UK,			
USA, India?			
Female	Facebook –	Facebook – Life	Facebook –
	Account Name	Event, Profile	Comments/Likes
	Instagram – No	Image	Instagram –
	Influence	Instagram – No	Following
	LinkedIn –	Influence	LinkedIn – No
	Connections	LinkedIn – Skills	Influence
	Twitter – No	Twitter –	Twitter – Posts
	Influence	Followers	
Male	Facebook – No	Facebook – Profile	Facebook – Life
	Influence	Image	Events
	Instagram – No	Instagram –	Instagram –
	Influence	Following and	Followers
		Followers	

LinkedIn –	LinkedIn – Badges	LinkedIn – No
Account Name	Twitter –	Influence
Twitter – Tagged	Followers	Twitter – No
Tweets		Influence

Table 4: Deeper Analysis of Male and Female Participants on Visual Characteristics

The results show much granular information of what male and female participants think separately in each country,

In India, Female participants are influenced by Account Name for visual characteristics in Facebook, where no influence can be seen for male participants. In the UK, male and female participants seem to be looking into Profile Image. In the US, female participants look at comments/likes where male participants look at Life events on Facebook.

In India, when looking into participants male and female on Instagram, there's no influence on Instagram. In the UK, only female participants are influenced by Following and Followers. In the US, female and male participants are influenced by following and followers respectively. It can be seen that male participants in the UK and the US are influenced by Followers on Instagram.

In the US, no influence can be found on male and female participants on LinkedIn. In India, the female and male participants are influenced by Connections and Account Name. But in the UK, the female and male participants are influenced by Skills and Badges on LinkedIn.

In the UK, the male and female participants are both influenced by Followers on Twitter. In India, male participants are influenced by Tagged tweets. In the US, the female participants are influenced by Posts.

RQ2: How the way of user's usage influences the decisions in accepting the account at face value in countries like UK, USA, India?

India	UK	US

How the way of	Facebook – FA	Facebook – No	Facebook – No
user's usage	Influence	Influence	Influence
influences the	_		
decisions in	Instagram –	Instagram – No	Instagram – Daily
accepting the	Frequent & Daily	Influence	& Frequent Usage
uccepting the	Usage		
account at face		LinkedIn – No	LinkedIn –
value in countries	LinkedIn – No	Influence	Frequent Influence
like UK, USA,	Influence		& Frequent Usage
India?		Twitter – No	
	Twitter – Daily	Influence	Twitter – No
	Usage		Influence

Table 5: Correlated Results from different countries on Usage Characteristics.

From the above result, we can see an anomaly that there's no influence on any platforms for the UK, this is possibly due to 79% of the participants being female, so the study can infer that the female participants in the UK do not focus much on the way how they use Online social networks.

In India, we can see that the fake account influences the user's activity on Facebook, but the UK and US have no influences. It can be observed that people in the US and UK don't give much importance to how they use Facebook.

In Instagram, people in India accepting the account depends on factors like daily usage and frequent usage. The frequent usage of Instagram several times a day and the number of hours spent on the platform influences them to accept the accounts. A similar trend can be seen in US people also. So, for India and US people Daily and Frequent usage influence them.

In LinkedIn, no influences can be seen for India and the UK. But the people of the US are influenced by the frequency of using the platform and frequency of seeing fake accounts in the platform to identify the accounts. For twitter, no influences can be seen in any of the platforms possible due to the low sample size of adequate data selected for the study.

The study further did a deeper analysis to find out how the male and female participants think in each country, and the results are summarized as follows,

How the way of	India	UK	US
user's usage			
influences the			
decisions in			
accepting the			
account at face			
value in countries			
like UK, USA,			
India?			
Female	Facebook – FA	Facebook – No	Facebook – No
	Influence	Influence	Influence
	Instagram – FA	Instagram – No	Instagram – Daily
	Identification help	Influence	Usage
	LinkedIn – No	LinkedIn – No	LinkedIn –
	Influence	Influence	Frequent Usage
	Twitter – No	Twitter – No	Twitter – FA
	Influence	Influence	Influence
Male	Facebook – No	Facebook – No	Facebook –
	Influence	Influence	Frequent Usage
	Instagram – FA	Instagram – FA	Instagram –
	Identification help	Influence	Frequent Usage
	LinkedIn – No	LinkedIn – No	LinkedIn – Daily
	Influence	Influence	Usage
	Twitter – Daily	Twitter – No	Twitter – No
	Usage	Influence	Influence

Table 6: Deeper Analysis of Male and Female Participants on Usage Characteristics

The results show much granular information of what male and female participants think separately in each country,

In India, the female participants are influenced by FA influence on Facebook, but no influence is found for male participants. In the UK, no influence is found for both male and female participants. In the US, male participants are influenced by Frequent usage of Facebook.

In India, both male and female participants are influenced by FA Identification help on Instagram. In the UK, only male participants are influenced by FA Influence. In the US, female and male participants are influenced by Daily and Frequent Usage of Instagram respectively.

In India and the UK, no influence has been found for male and female participants on LinkedIn. But in the US, female and male participants are influenced by Frequent and Daily Usage on LinkedIn respectively.

In India, male participants are influenced by Daily usage on Twitter. But no influence is found for male and female participants in the UK. In the US, however, the female participants are influenced by FA influence.

From analyzing the results, it can be observed that the study shows the visual and usage characteristics of accounts that influence the user's decision. However, due to fewer participants in the study, the produced results cannot be used to conclude how the whole country thinks. But it shows how each gender in the country thinks when it comes to identifying the fakeness of the accounts in the platforms. The study has only covered analysis manually created accounts, it's ethical considerations, and how visual and usage characteristics of the accounts impact the user's decision. It did not focus on automated accounts which is the limitation of the study.

5 Recommendations

The findings and discussion of this study can be used by scientists, policymakers, OSN operators, and cybersecurity researchers as a starting point of discussion to:

- 1. Improve security mechanisms for users in OSN networks specifically related to manually created fake accounts.
- 2. Understand ethical considerations when researching in OSN and guidelines to be followed.
- 3. Understand the impacts of the fake account on young people.
- 4. Understand the cultural difference between different countries and the impact of OSN in the cognitive process of users.
- 5. Create better privacy rules for young people who use Online social networks.

From this thesis, the findings can be used to improve the points given above. The OSN operators should make changes to their existing design of the user verification to focus more on the custom usernames that don't usually exist in any name generator sites. They need to add usage analytics of the accounts for fake account identification process and improve ethical guidelines specifically about the personal data shared in the platforms.

The OSN users can identify fakeness of the accounts better by looking at visual data such as Account Name, Profile Image, Life events and Comments/Likes in Facebook, Following and Followers in Instagram, Account Name, Connections, Skills, and Badges in LinkedIn, and Posts, Tagged Tweets, and Followers in Twitter. This will enable the users to be pro-active in finding fake accounts when adding new users to their network. They can also identify the fakeness of the accounts through the frequency of the account activity and daily usage. By knowing the visual data people look into other accounts, the OSN users can improve it for the better to make their account authentic.

Researchers in cybersecurity can use the ethical guidelines followed in this research as a baseline for future research in OSN. Policymakers of OSN can create awareness about identifying the fakeness of accounts by making online ad-campaigns in OSN and public

services. They can provide training to users within the platforms about the fakeness of accounts.

6 Conclusion

The study has explored the factors that influence the user's cognitive process to accept the accounts at face value. The goal of the study was to understand and determine which visual and usage characteristics of accounts and platforms influence the decision of user's in accepting the accounts at face value.

In Literature, background research has been done on previous studies, different OSN platforms, problems in different countries (UK, USA, India) and young people concerning fake accounts in OSN and finally ethical considerations.

The findings and discussion of this study can be used by OSN operators, scientists, policymakers, and cybersecurity researchers.

The study has used quantitative statistical analysis to examine data gotten from data collection. Two statistical tests such as the Pearson Correlation Coefficient and Linear Multiple Regression Analysis was done to get the results for research questions.

The results show that in India, US and UK people give much importance to visual characteristics such as short bio and followers and usage characteristics such as Daily and Frequent usage to accept/believe the accounts at face value. The results from deeper analysis into each country shows what female participants and male participants think.

The limitations of the study are that the results seem to have biased towards female participants as they contribute more in participation. This is due to the collection of more responses using the snowball method. The study has a smaller sample size and because of that, it fails to find out how overall people in the country think. The results are valid for only people participated in the study in each country. The study has taken a different approach to only analyze accounts created by manual methods. The study has taken only visual and usage characteristics and did not cover social network connections, interaction with users, content, and activity of the accounts which can be done in future studies. The

patterns emerged from the data analysis show that further research must be done with a larger sample size to get valid results to understand how people in each country think. The study focused only on people aged between 18-25. In the future, researchers should focus on how people of all ages think and broaden this research with more findings.

Overall, the results prove that visual characteristics influence user's decision in accepting account in countries such as India, UK, and the US, where usage characteristics also influence user's decision to accept accounts at face value only in countries India and US except the UK.

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Appendix A – Fake Accounts

Twitter Account 1:



Twitter Account 2:



Instagram Account 1:



Instagram Account 2:

🔿 Instagram	Q Search	Log In Sign Up
	Smclaren1995 Follow 5 posts 5 followers 67 following Sharon Mclaren	
	■ POSTS ② TAGGED	
- Sho	LGBTQIA	

LinkedIn Account 1:



LinkedIn Account 2:



Facebook Account 1:

101						
					1	
		~			8	
11-1-		-				~
	1	15		-		1
					-	-
Kell	rin Kalk			🖉 Edit Pro	ofile 📃 Acti	ivity log
Tim	eline 🔻 About	Friends	Photos	Archive	More •	
		Create post 🛛 🙆	Photo/Video	I Live video	🚩 Life Event	
Food specialist. Proud alcohol nerd. Web Communicator.	aficionado.	What's on y	your mind?			
Edit Bio						
	8	Photo/Video	🎤 Tag frie	nds 🧿 Che	eck in ***	
Studied at Tallinna Ülikool	Posts			Manage posts	= List view	Grid view
Went to Tallinna Mustamäe Gümnaasiu	m		-*	manage pooro		
Lives in Tallinn, Estonia		Kelrin Kalk				
From Tallinn, Estonia		🔰 59 mins · 🕗 ·	0			
🔘 In a relationship						
Edit Details						
Luit Details			In a	relationsh	ip	

Facebook Account 2:

Add Cover Photo	Roho Kui Timeline -	mar About	Friends	Photos	 ⊘ Edit Prof Archive 	file i≘ Act	iivity Log 🚥
(3) Intro		/ Cr	eate Post 🛛 🙆	Photo/Video	I Live Video	🚩 Life Even	t
Add a short bio to tell people mo Add Bio	ore about yourself.	9	What's on g	our mind?			
G Works at Student		2	Photo/Video	🎤 Tag Frie	ends 🧿 Che	eck in ***	
Studied at Tallinna Tehnikaülik	ool	Posts		-0	Manage Posts	= List View	Grid View
Lives in Tallinn, Estonia					9		
From Jalore, India		1	Roho Kuma	ar updated his	s profile picture.		•••
Edit Details			Just now . Q				
Showcase what's important to you pages, groups and more to your your public profi Add to Feature	u by adding photos, featured section on le. sd						

Appendix B – Emails

EMAILS USED:

cabeva4874@protonmail.com

viwaba2595@protonmail.com

tomil9388@protonmail.com

dapik23511@protonmail.com

Appendix C – Survey Questionnaire

Hello, my name is Rohin (Email: rosamb@ttu.ee). I am doing my master's Thesis in TalTech. This research is a psychological study that focuses on understanding why fake accounts work on people at face value. This survey will take 5 - 10 min to answer approx. This study will be collecting data for 2 weeks. The data collected through this survey will be used anonymously. The research paper about this study will be found in https://digikogu.taltech.ee/ once the study is completed.

The demographic questions were as follows,

- 1. Please select your age group
- 2. Please state your gender
- 3. Select your level of education
- 4. Please state your country of origin
- 5. What languages do you speak? (e.g.: English, Tamil)
- 6. Are you working in an IT-related field?

The face value analysis questions were as follows,

- 1. On a scale of 1 to 6, What is the probability of the above account being a fake (Image 1)?
- 2. Will you be looking for anything else at the account that helps you determine the fakeness (Image 2)?
- 3. Will you be looking for anything else at the account that helps you determine the fakeness?
- 4. On a scale of 1 to 6, which characteristics were most important for your judgment?(1 = No Relevance, 6 = Most Relevant)
- 5. On a scale of 1 to 6, how frequently do you use Facebook/Instagram/Twitter/LinkedIn?

- 6. On a scale of 1 to 6, how often do you see a lot of fake accounts in your daily usage on Facebook/Instagram/Twitter/LinkedIn?
- 7. On a scale of 1 to 6, how does fake accounts influence your usage of Facebook/Instagram/Twitter/LinkedIn?
- 8. Do you discuss or ask help to determine if one account is fake or not with anyone else?

The Likert scale has been used to capture the responses. For questions 1&2, the responses from 1 to 6 were "certainly real", "most likely real", "rather real", "rather fake", "most likely fake", "certainly fake". For question 3, the responses were "yes" or "No". For question 4, the responses from 1 to 6 were "No relevance", "slightly less relevant", "moderately less relevant", "slightly relevant", "moderately relevant", "most relevant". For questions 5&6, the responses from 1 to 6 were "once a day or less", "once every 12 hours", "once every 6 hours", "once every 4 hours", "once every 2 hours", "at least once in an hour". For question 7, the responses from 1 to 6 were "Not affected", "slightly less affected", "slightly affected", "moderately affected", "a lot relevant". For question 8, the responses from 1 to 6 were "never", "very rarely", "rarely", "occasionally", "very frequently", "always".

Appendix D – Participant's Background

India

Gender	Responses	Frequency
Female	88	53,65854
Male	74	45,12195
Prefer not to say	2	1,219512

Education	Responses	Frequency
Bachelors degree	87	54,71698
Below high school	4	2,515723
High school degree	15	9,433962
Masters degree	53	33,33333

Work	Responses	Frequency
Non - IT	128	78,04878
IT	36	21,95122

UK

Gender	Responses	Frequency
Female	95	79,16667
Male	24	20
Prefer not to say	1	0,833333

Education	Responses	Frequency
Bachelors degree	89	74,16667
Below high school	1	0,833333
High school degree	13	10,83333
Masters degree	17	14,16667

Work	Responses	Frequency
Non - IT	110	91,66667
IT	10	8,333333

Gender	Responses	Frequency
Female	80	64
Male	33	26,4
Prefer not to say	2	1,6

Education	Responses	Frequency
Bachelors degree	59	47,58065
Below high school	3	2,419355
High school degree	16	12,90323
Masters degree	36	29,03226

Work	Responses	Frequency
Non - IT	101	80,8
IT	14	11,2

Appendix E – Overall Hypothesis Results

Hypothesis 1: Visual characteristics of account influence the decision to accept the accounts at face value whether it is real/fake.

	Facebook	Instagram	LinkedIn	Twitter
India	Facebook AM – X AF – Short Bio P	Instagram AM – Account Name & Tagged Posts AF – Followers & Tagged Posts	LinkedIn AM – Account Name AF – Companies worked/working for P	Twitter AM – X AF – X NP
		Р		
UK	AM – X AF – Profile Image P	AM – X AF – Following P	AM – X AF – Others Named Same Name P	AM – Followers & Short bio AF – Followers & Short bio P
US	AM – Comments/Likes AF – Short bio P	AM – Followers AF – Followers P	AM – Location AF – Companies worked/ working for P	AM – X AF – Posts P

Table 7: Results from Hypothesis 1

P – Proved, NP – Not Proved, AM – Account(Male), AF – Account(Female), X – No Characteristics Found.

Hypothesis 2: Platform usage characteristics influence the decision to accept the accounts at face value whether it is real/fake.

	Facebook	Instagram	LinkedIn	Twitter
India	AM – FA	AM - X	AM - X	AM – Daily
	Influence	AF – Frequent	AF – X	Usage
	AF - X	Usage & Daily		AF - X
		Usage	NP	
	Р	C		Р
		Р		
UK	AM - X	AM - X	AM - X	AM - X
	AF - X	AF - X	AF - X	AF – X
	NP	NP	NP	NP
US	AM – X	AM – Frequent	AM – X	AM – X
	AF - X	Usage	AF – Daily	AF – X
	ND	AF - FA	Usage &	NB
	NP	Influence	Frequent	NP
		Р	Usage	
			Р	

Table 8: Results from Hypothesis 2

P – Proved, NP – Not Proved, AM – Account(Male), AF – Account(Female), X – No Characteristics Found.

Appendix F – Individual Hypothesis H1 & H2 Results

Hypothesis 1: Visual characteristics of account influence the decision to accept the accounts at face value whether it is real/fake.

Variable		Account(Female)	Account(Male)	Account Name	Comments/Like	Friend's List	Life Events	Posts	Profile Image	Short Bio
1. Account(Female)	Pearson's r	_								
	p-value	_								
	Upper 95% CI	-								
	Lower 95% CI	-								
2. Account(Male)	Pearson's r	0.105	_							
	p-value	0.326	-							
	Upper 95% CI	0.307	-							
	Lower 95% CI	-0.105	_							
3. Account Name	Pearson's r	0.097	-0.160	_						
	p-value	0.364	0.135	_						
	Upper 95% CI	0.300	0.050	-						
	Lower 95% CI	-0.113	-0.356	-						
4. Comments/Like	Pearson's r	0.178	0.084	0.327**	_					
	p-value	0.095	0.433	0.002	_					
	Upper 95% Cl	0.373	0.287	0.501	-					
	Lower 95% CI	-0.031	-0.126	0.128	-					
5. Friend's List	Pearson's r	0.083	0.023	0.329**	0.746***	_				
	p-value	0.442	0.828	0.002	< .001	_				
	Upper 95% CI	0.286	0.230	0.503	0.826	-				
	Lower 95% CI	-0.128	-0.186	0.130	0.637	_				
5. Life Events	Pearson's r	0.089	-0.014	0.237*	0.650***	0.676***	_			
	p-value	0.409	0.897	0.026	< .001	< .001	_			
	Upper 95% CI	0.291	0.195	0.424	0.756	0.775	_			
	Lower 95% CI	-0.122	-0.222	0.030	0.510	0.544	_			
7. Posts	Pearson's r	0.011	0.050	0.332**	0.653***	0.535***	0.535***	_		
	p-value	0.919	0.642	0.001	< .001	< .001	< .001	_		
	Upper 95% CI	0.219	0.256	0.505	0.758	0.668	0.669	_		
	Lower 95% CI	-0.198	-0.160	0.133	0.515	0.367	0.368	-		
8. Profile Image	Pearson's r	0.076	-0.058	0.560***	0.579***	0.555***	0.473***	0.678***	_	
	p-value	0.479	0.590	< .001	< .001	< .001	< .001	< .001	_	
	Upper 95% CI	0.280	0.152	0.688	0.703	0.684	0.620	0.777	-	
	Lower 95% CI	-0.134	-0.263	0.398	0.422	0.392	0.294	0.547	_	
9. Short Bio	Pearson's r	0.229*	0.080	0.206	0.485***	0.440***	0.573***	0.561***	0.484***	_
	p-value	0.031	0.456	0.053	< .001	< .001	< .001	< .001	< .001	_
	Upper 95% CI	0.417	0.283	0.397	0.629	0.594	0.698	0.689	0.629	-
	Lower 95% CI	0.022	-0.130	-0.003	0.308	0.255	0.415	0.399	0.307	_

Figure 9: Results from H1 Pearson Correlations for Facebook Users in India

Linear Regression

Model Sum	nmary – Accour	nt(Female)								
Model	R	R ² Adju	sted R ²	RMS	E R ² Change	F Change	df1	df	2	р
H1	0.876	0.767	0.764	1.90	0.767	286.326	1	ł	87	< .001
ANOVA										
Model		Sum of Square	s df		Mean Square	F	р			
H1	Regression Residual	1053.803 320.197	8	1 8	1053.803 3.639	289.617	< .001			
	Total	1374.000	8	9						
Coefficient	s									_
								95%	6 CI	_
Model		Unstandardized	Standard	Error	Standardized	t	р	Lower	Upper	-
H1	Short Bio	0.931	0.0	055	0.986	17.018	< .001	0.822	1.040	

Figure 10: Results from H1 Regression test for Facebook Account(Female) in India

Variable		Account(Male)	Account(Female)	Account Name	Followers	Following	Posts	Profile Image	Tagged Posts
1. Account(Male)	Pearson's r	_							
	p-value	_							
	Upper 95% CI	_							
	Lower 95% CI	-							
2. Account(Female)	Pearson's r	0.456***	_						
	p-value	< .001	_						
	Upper 95% CI	0.626	_						
	Lower 95% CI	0.244	-						
3. Account Name	Pearson's r	0.308*	0.164	_					
	p-value	0.011	0.182	-					
	Upper 95% CI	0.509	0.387	_					
	Lower 95% CI	0.075	-0.078	_					
4. Followers	Pearson's r	0.068	0.348**	0.240*	_				
	p-value	0.579	0.004	0.049	_				
	Upper 95% CI	0.302	0.541	0.453	_				
	Lower 95% CI	-0.173	0.119	0.002	-				
5. Following	Pearson's r	0.233	0.189	0.314**	0.561***	_			
	p-value	0.056	0.123	0.009	< .001	_			
	Upper 95% CI	0.447	0.409	0.514	0.705	-			
	Lower 95% CI	-0.005	-0.052	0.082	0.373	_			
6. Posts	Pearson's r	0.210	0.304*	0.408***	0.592***	0.549***	_		
	p-value	0.086	0.012	< .001	< .001	< .001	_		
	Upper 95% CI	0.427	0.506	0.589	0.728	0.696	-		
	Lower 95% CI	-0.030	0.071	0.187	0.411	0.357	-		
7. Profile Image	Pearson's r	0.133	0.298*	0.640***	0.481***	0.523***	0.645***	_	
	p-value	0.279	0.014	< .001	< .001	< .001	< .001	_	
	Upper 95% CI	0.360	0.501	0.762	0.645	0.677	0.766	_	
	Lower 95% CI	-0.109	0.064	0.474	0.274	0.326	0.480	_	
8. Tagged Posts	Pearson's r	0.259*	0.308*	0.253*	0.444***	0.565***	0.558***	0.458***	_
	p-value	0.033	0.011	0.037	< .001	< .001	< .001	< .001	_
	Upper 95% CI	0.469	0.509	0.464	0.617	0.708	0.703	0.628	-
	Lower 95% CI	0.022	0.075	0.016	0.230	0.377	0.369	0.246	-

Figure 11: Results from H1 Pearson Correlations for Instagram Users in India

Linear Regression

Model	R	R ²	Adjusted R ²	I	RMSE	R ² Change	F Ch	ange	df1	df2	р
H1	0.935	0.875	0.871		1.617	0.875	226	.466	2	65	< .001
ANOVA											
Model		Sum of	Squares	df	Mean	Square	F		р		
H1	Regression	12	02.439	2	6	01.220	229.951	. <	.001		
	Residual	1	72.561	66		2.615					
	Total	13	75.000	68							
Coefficient	ts										
										95%	6 CI
Model		Unsta	ndardized	Stand	ard Error	Standard	lized	t	р	Lower	Upper
H1	Account Name		0.407		0.106	0.4	187	3.852	< .001	0.196	0.617
	Tagged Posts		0.600		0.091	0.6	514	6.577	< .001	0.418	0.782

Figure 12: Results from H1 Regression test for Instagram Account(Male) in India

Model Sun	nmary – Account	(Female)									
Model	R	R ²	Adjusted R	2	RMSE	R ² Chang	e F	Change	df1	df2	р
H1	0.940	0.884	0.877		1.468	0.884		120.166	4	63	< .0
Model		Sum of	Squares	df	Mea	n Square	F		р		
H1	Regression	10	52.102	4		263.026	122.	073	< .001		
	Residual	1	37.898	64		2.155					
	Total	11	90.000	68							
Coefficient	'S										
										959	% CI
Model		Unstan	dardized	Standa	rd Error	Standard	lized	t	р	Lower	Upper
Н1	Followers		0.409		0.151	0.3	373	2.715	0.009	0.108	0.710
	Posts		0.071		0.189	0.0	68	0.377	0.707	-0.306	0.449
	Profile Image		0.144		0.148	0.1	55	0.973	0.334	-0.152	0.440
	Tagged Posts		0.240		0.141	0.2	243	1.704	0.093	-0.041	0.521

Figure 13: Results from H1 Regression test for Instagram Account(Female) in India

Variable		Account(Female)	Account(Male)	Account Name	About	Badges	Connections	Education	Experience	Location	Others Named Same Name	Skills	Companies worked/working for
1 Account(Female)	Pearson's r	-											
a recounty entancy	n-value	_											
	Upper 95% CI	-											
	Lower 95% CI	-											
Account(Male)	Pearson's r	0.523**	_										
	p-value	0.004	-										
	Upper 95% CI	0.750	-										
	Lower 95% CI	0.187	-										
Account Name	Pearson's r	-0.343	-0.617***	_									
	p-value	0.074	< .001	-									
	Upper 95% CI	0.035	-0.316	-									
	Lower 95% CI	-0.635	-0.805	-									
4. About	Pearson's r	-0.640***	-0.226	0.320	_								
	p-value	< .001	0.248	0.097	-								
	Upper 95% CI	-0.351	0.161	0.619	-								
	Lower 95% CI	-0.818	-0.552	-0.060	-								
Radoes	Pearson's r	-0.367	-0.202	0.267	0 724***	-							
n bauges	n-value	0.055	0.303	0.170	< 001	_							
	Linner 95% CI	0.007	0.185	0.582	0.864	_							
	Lower 95% CI	-0.651	-0.535	-0.118	0.481	-							
Connections	Bearran's s	0.005	0.020	0.202	0.210	0.150							
. connections	n-value.	0.979	0.844	0.202	0.263	0.420							
	Linner 05% Cl	0.379	0.406	0.105	0.547	0.502							
	Lower 95% CI	-0.368	-0.339	-0.535	-0.168	-0.228	_						
7 Education	Bearcon's s	0 608***	-0.228	0 504***	0.662***	0.427*	0.181						
. Education	Pearsons i	-0.098	0.028	< 001	< 001	0.022	0.101	_					
	p-value	< .001	0.088	< .001	< .001	0.023	0.350	-					
	Lower 95% CI	-0.850	-0.625	0.284	0.384	0.064	-0.206	-					
	Barrow also a	0.01044	0.336	0.350	0.70.0444		0.357						
J. Experience	Pearson's r	-0.615***	-0.336	0.359	0.798	0.58/**	0.357	0.657	-				
	p-value	< .001	0.081	0.001	< .001	0.001	0.062	< .001	_				
	Lower 95% CI	-0.314	-0.630	-0.016	0.903	0.787	-0.019	0.827	-				
	concr som er	0.001	0.050	0.010	0.005	0.274	0.015	0.570					
). Location	Pearson's r	-0.316	-0.083	0.432*	0.692***	0.600***	0.242	0.674***	0.643***	-			
	p-value	0.102	0.676	0.022	< .001	< .001	0.215	< .001	< .001	-			
	Upper 95% CI	0.065	0.300	0.693	0.847	0.795	0.564	0.837	0.820	_			
	Lower 93% CI	-0.010	-0.442	0.070	0.451	0.295	-0.144	0.403	0.333	_			
 Others Named Same Name 	Pearson's r	0.156	0.133	-0.039	0.436*	0.621***	0.231	-0.046	0.260	0.409*	-		
	p-value	0.428	0.498	0.842	0.020	< .001	0.236	0.816	0.181	0.031	-		
	Upper 95% CI	0.500	0.483	0.339	0.696	0.807	0.556	0.333	0.577	0.678	-		
	Lower 95% CI	-0.230	-0.252	-0.406	0.075	0.323	-0.155	-0.412	-0.125	0.042	-		
1. Skills	Pearson's r	-0.514**	-0.413*	0.434*	0.680***	0.814***	0.088	0.546**	0.694***	0.623***	0.449*	-	
	p-value	0.005	0.029	0.021	< .001	< .001	0.657	0.003	< .001	< .001	0.017	-	
	Upper 95% CI	-0.174	-0.047	0.695	0.840	0.910	0.446	0.764	0.847	0.808	0.704	-	
	Lower 95% CI	-0.744	-0.681	0.073	0.412	0.633	-0.295	0.217	0.433	0.325	0.091	-	
12. Companies worked/working for	Pearson's r	-0.580**	-0.194	0.365	0.489**	0.444*	0.343	0.791***	0.498**	0.404*	0.030	0.444*	-
	p-value	0.001	0.324	0.056	0.008	0.018	0.074	< .001	0.007	0.033	0.878	0.018	-
	Upper 95% CI	-0.264	0.193	0.650	0.729	0.701	0.635	0.899	0.735	0.675	0.399	0.701	-
	Lower 95% CI	-0.783	-0.529	-0.009	0.142	0.085	-0.034	0.593	0.154	0.036	-0.347	0.085	-

Figure 14: Results from H1 Pearson Correlations for LinkedIn Users in India

Model Summary - Account(Male)

Model	R	R ²	Adjusted R ²	1	RMSE	R ² Change	F Ch	ange	df1	df2	р
H1	0.831	0.691	0.667		2.197	0.691	27	.946	2	25	< .001
ANOVA											
Model		Sum of	Squares	df	Mear	1 Square	F	p			
H1	Regression	28	80.525	2	1	40.262	29.064	< .(001		
	Residual	12	25.475	26		4.826					
	Total	40	06.000	28							
oefficien	ts									95%	CI
Model		Unstar	ndardized	Stand	ard Error	Standard	ized	t	р	Lower	Upper
H1	Skills		0.903		0.264	0.1	746	3.422	0.002	0.361	1.446
	Account Name		-0.151		0.258	-0.1	173	-0.587	0.562	-0.681	0.378

Figure 15: Results from H1 Regression test for LinkedIn Account(Male) in India

Linear Regression

Model Sun	nmary – Account	(Female)											
Model	R	R ²	Adjusted F	R ² R	MSE	R² Change	F Cha	ange	df1	df2		р	
H1	0.819	0.671	0.599) 2	.164	0.671	8.	961	5	22	2 <	.001	
ANOVA													
Model		Sum of	Squares	df	Mea	an Square	F		р				
H1	Regression	2	19.311	5		43.862	9.368	<	< .001				
	Residual	1	.07.689	23		4.682							
	Total	3	27.000	28									
Coefficient	ts												
												95%	S CI
Model			ι	Instanda	dized	Standard E	rror	Stand	ardized	t	р	Lower	Upper
H1	About			-0	.096	0.5	59	_	0.081	-0.172	0.865	-1.252	1.060
	Experience			0	203	0.54	16		0.174	0.371	0.714	-0.927	1.333
	Education			-0	836	0.5	88	-	0.773	-1.553	0.134	-1.949	0.278
	Skills			0	.334	0.47	74		0.264	0.706	0.487	-0.645	1.314
	Companies wo	rked/wor	king for	0	938	0.44	19		0.772	2.088	0.048	0.009	1.868

Figure 16: Results from H1 Regression test for LinkedIn Account(Female) in India

Variable		Account(Female)	Account(Male)	Account Name	Comments/Like	Friend's List	Life Events	Posts	Profile Image	Short Bio
1. Account(Female)	Pearson's r	_								
	p-value	-								
	Upper 95% CI	-								
	Lower 95% CI	-								
2. Account(Male)	Pearson's r	0.205	_							
	p-value	0.051	_							
	Upper 95% CI	0.394	-							
	Lower 95% CI	-7.620e -4	-							
3. Account Name	Pearson's r	0.083	-0.133	_						
STREEDUNT HUME	n-value	0.436	0.210	_						
	Unner 95% CI	0.284	0.075	_						
	Lower 95% CI	-0.125	-0.330	_						
4. Comments /Like	Pearcon's r	-0.112	0.076	0.109	_					
4. Comments/Like	rearson's r	-0.115	0.070	0.202						
	Upper 05% Cl	0.280	0.470	0.302	_					
	Upper 95% CI	0.095	0.277	0.308	_					
	Lower 95% CI	-0.512	-0.132	-0.099	-					
5. Friend's List	Pearson's r	-0.136	-0.184	0.138	0.587***	-				
	p-value	0.199	0.082	0.193	< .001	-				
	Upper 95% CI	0.072	0.023	0.334	0.707	-				
	Lower 95% CI	-0.333	-0.375	-0.070	0.433	-				
6. Life Events	Pearson's r	-0.243*	-0.060	0.219*	0.433***	0.259*	_			
	p-value	0.020	0.573	0.037	< .001	0.013	_			
	Upper 95% CI	-0.039	0.148	0.406	0.586	0.441	_			
	Lower 95% CI	-0.427	-0.263	0.013	0.249	0.056	_			
7. Posts	Pearson's r	-0.044	-0.143	0.233*	0.314**	0.355***	0.161	_		
	p-value	0.682	0.177	0.026	0.002	< .001	0.129	_		
	Upper 95% CI	0.164	0.065	0.419	0.488	0.522	0.355	-		
	Lower 95% CI	-0.247	-0.339	0.028	0.115	0.160	-0.047	-		
8. Profile Image	Pearson's r	0.324**	0.075	0.445***	0.185	0.149	0.139	0.439***	_	
-	p-value	0.002	0.477	< .001	0.079	0.160	0.190	< .001	-	
	Upper 95% CI	0.497	0.277	0.596	0.377	0.344	0.335	0.592	-	
	Lower 95% CI	0.127	-0.133	0.263	-0.022	-0.059	-0.069	0.257	-	
9. Short Bio	Pearson's r	-0.069	-0.105	0.031	0.257*	0.233*	0.445***	0.184	0.199	_
	p-value	0.515	0.324	0.772	0.014	0.026	< .001	0.081	0.058	_
	Upper 95% CI	0.139	0.104	0.235	0.440	0.419	0.596	0.376	0.389	_
	Lower 95% CI	-0.271	-0.304	-0.176	0.054	0.029	0.263	-0.023	-0.007	_

Figure 17: Results from H1 Pearson Correlation for Facebook Users in UK

Linear Regression

Model Sun	nmary - Account	(Female)									
Model	R	R ²	Adjusted R	² R	MSE	R ² Change	F Cł	nange	df1	df2	р
H1	0.954	0.910	0.908	1	1.261	0.910	44	5.109	2	88	< .001
ANOVA											
Model		Sum of	Squares	df	Mea	n Square	F		р		
H1	Regression	14	32.404	2	7	716.202	450.16	7	< .001		
	Residual	1	41.596	89		1.591					
	Total	15	74.000	91							
Coefficien	ts										
										95%	i Cl
Model		Unstan	dardized S	Standar	d Error	Standardi	zed	t	р	Lower	Upper
H1	Life Events		-0.155	0	.087	-0.1	76	-1.783	0.078	-0.328	0.018
	Profile Image		0.886	0	.064	0.6	90	13.808	< .001	0.759	1.014

Figure 18: Results from H1 Regression test for Facebook Account(Female) in UK

Variable		Account(Male)	Account(Female)	Account Name	Followers	Following	Posts	Profile Image	Tagged Posts
1. Account(Male)	Pearson's r	_							
	p-value	-							
	Upper 95% CI	-							
	Lower 95% CI	_							
2. Account(Female)	Pearson's r	0.404***	_						
	p-value	< .001	_						
	Upper 95% CI	0.585	_						
	Lower 95% CI	0.185	-						
3. Account Name	Pearson's r	-0.117	-0.027	_					
	p-value	0.339	0.824	-					
	Upper 95% CI	0.123	0.211	-					
	Lower 95% CI	-0.344	-0.262	-					
4. Followers	Pearson's r	0.168	0.102	0.082	_				
	p-value	0.167	0.402	0.502	_				
	Upper 95% CI	0.389	0.331	0.313	_				
	Lower 95% CI	-0.071	-0.138	-0.158	_				
5. Following	Pearson's r	0.241*	-0.041	0.042	0.480***	_			
	p-value	0.046	0.740	0.732	< .001	_			
	Upper 95% CI	0.452	0.198	0.276	0.644	_			
	Lower 95% CI	0.005	-0.275	-0.197	0.275	-			
6. Posts	Pearson's r	0.016	-0.026	0.034	0.453***	0.401***	_		
	p-value	0.894	0.833	0.784	< .001	< .001	_		
	Upper 95% CI	0.252	0.212	0.268	0.623	0.582	_		
	Lower 95% CI	-0.221	-0.261	-0.205	0.242	0.181	-		
7. Profile Image	Pearson's r	0.136	-0.011	0.460***	0.160	0.121	0.220	_	
	p-value	0.265	0.928	< .001	0.189	0.322	0.069	_	
	Upper 95% CI	0.361	0.226	0.628	0.382	0.348	0.434	_	
	Lower 95% CI	-0.104	-0.247	0.250	-0.080	-0.119	-0.018	-	
8. Tagged Posts	Pearson's r	0.056	0.034	-0.086	0.238*	0.326**	0.137	-0.106	_
	p-value	0.648	0.782	0.481	0.049	0.006	0.261	0.385	_
	Upper 95% CI	0.289	0.268	0.154	0.449	0.523	0.362	0.134	_
	Lower 95% CI	-0.183	-0.204	-0.316	0.001	0.097	-0.103	-0.335	-

Figure 19: Results from H1 Pearson Correlation for Instagram Users in UK

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Linear Regression

Model	R	R ² Adjus	ted R ² F	RMSE R ² Change	e F Change	df1	df	f2	р
H1	0.897	0.805 0	.802	1.781 0.805	276.231	1		67	< .001
ANOVA									
Model		Sum of Squares	df	Mean Square	F	р			
H1	Regression	889.300	1	889.300	280.354	< .001			
	Residual	215.700	68	3.172					
	Total	1105.000	69						
Coefficient	5								_
							959	% CI	_
Model		Unstandardized	Standard Er	ror Standardize	d t	р	Lower	Upper	_
H1	Following	0.711	0.04	2 0.617	16.744	< .001	0.627	0.796	

Figure 20: Results from H1 Regression test for Instagram Account(Female) in UK

Variable		Account(Female)	Account(Male)	Account Name	About	Badges	Connections	Education	Experience	Location	Others Named Same Name	Skills	Companies worked/working fe
1. Account(Female)	Pearson's r	_											
	p-value	-											
	Upper 95% CI	-											
	Lower 95% CI	-											
2. Account(Male)	Pearson's r	0.297	_										
	p-value	0.283	-										
	Upper 95% CI	0.702	-										
	Lower 95% CI	-0.254	-										
Account Name	Pearson's r	0.349	0.044	_									
	p-value	0.203	0.877	-									
	Upper 95% CI	0.731	0.544	-									
	Lower 95% CI	-0.199	-0.479	-									
4 About	Pearson's r	0.402	0.228	0.851***	_								
1. OVV1	n-value	0.137	0.414	< 001	_								
	Upper 95% CI	0.758	0.663	0.949	-								
	Lower 95% CI	-0.139	-0.322	0.601	-								
E Badaas	Deservor's r	0.270	0.028	0.221	0.170								
5. bauges	n-value	0.370	0.028	0.321	0.170	-							
	Upper 95% CI	0.742	0.520	0.715	0.627	_							
	Lower 95% CI	-0.176	-0.491	-0.229	-0.375	-							
Connections	December 1	0.400	0.457	0.407	0.408	0.334							
o. Connections	Pearson's r	0.490	0.457	0.467	0.498	0.334	_						
	Upper 95% CI	0.004	0.087	0.000	0.039	0.223							
	Lower 95% CI	-0.030	-0.073	-0.034	-0.019	-0.215	-						
7 Education	Deservor's r	0.252	0.005	0.005***	0.000***	0.106	0.446						
7. Education	Pearson's r	0.355	0.035	< 001	< 001	0.106	0.446	-					
	Unner 95% CI	0.733	0.579	0.968	0.966	0.587	0.780	_					
	Lower 95% CI	-0.194	-0.438	0.731	0.718	-0.429	-0.086	-					
0 Eventioner	Deserver's a	0.433	0.007	0.746**	0.001***	0.004	0.431	0.004111					
6. Experience	Pearson's r	0.452	0.097	0.740	0.801	0.094	0.451	0.804	_				
	Upper 95% CI	0.108	0.730	0.001	0.931	0.739	0.108	0.054	_				
	Lower 95% CI	-0.103	-0.437	0.378	0.490	-0.440	-0.104	0.632	-				
0.1	December -	0.417	0.162	0.450	0.5374	0.130	0.043	0.5504	0.472				
9. Location	Pearson's r	0.417	-0.162	0.468	0.537*	0.139	-0.043	0.569*	0.472	-			
	p-value	0.122	0.303	0.078	0.039	0.620	0.660	0.027	0.070	_			
	Lower 95% CI	-0.122	-0.623	-0.058	0.035	-0.402	-0.543	0.080	-0.053	-			
	B	0 5 7 0 1	0.420	0.000	0.100	0.5000			0.050				
10. Others Named Same Name	Pearson's r	0.578*	0.429	0.260	0.168	0.598*	0.252	0.111	0.058	0.174	-		
	p-value	0.024	0.111	0.350	0.549	0.018	0.305	0.694	0.837	0.530	_		
	Lower 95% CI	0.094	-0.107	-0.291	-0.376	0.124	-0.299	-0.425	-0.468	-0.372	_		
11 65-85	December 1	0.301	0.301	0.5104	0.240	0.010000	0.5264	0.370	0.246	0.000	0.0124		
11. SKIIIS	rearson's r	0.391	0.301	0.518*	0.348	0.819***	0.526*	0.279	0.346	-0.009	0.613*	-	
	Upper 05% C1	0.149	0.275	0.048	0.204	< .001	0.044	0.514	0.207	0.975	0.015	_	
	Lower 95% CI	-0.152	-0.249	0.008	-0.200	0.529	0.018	-0.272	-0.202	-0.519	0.147	-	
	201121 95/0 61	0.152	0.245	0.000	0.200		0.010		0.202		0.147		
12. Companies worked/working for	Pearson's r	0.366	0.288	0.781***	0.894***	0.036	0.557*	0.878***	0.934***	0.397	0.068	0.374	_
	p-value	0.179	0.298	< .001	< .001	0.898	0.031	< 100. >	< .001	0.143	0.809	0.1/0	_
	opper 95% CI	0.740	0.097	0.924	0.905	0.538	0.832	0.959	0.978	0.755	0.501	0.744	-

Figure 21: Results from H1 Pearson Correlation for LinkedIn Users in UK

Linear Regression

Model Sum	nmary – Account	(Female)									
Model	R	R ²	Adjusted R ²	RM	SE R ² Change	F Change	e d	lf1	df2	р	_
H1	0.916	0.839	0.828	1.1	49 0.839	67.853		1	13	< .001	_
ANOVA											
Model		Sum of S	quares	df	Mean Square	F	р				
H1	Regression	9	6.510	1	96.510	73.073	< .001				
	Residual	1	8.490	14	1.321						
	Total	11	5.000	15							
Coefficient	s										
										959	6 CI
Model			Unstand	lardized	Standard Error	Standard	ized	t	р	Lower	Uppe
H1	Others Named	Same Name	2	0.684	0.080	0.8	81	8.548	< .001	0.513	0.856

Figure 22: Results from H1 Regression test for LinkedIn Account(Female) in UK

Variable		Account(Male)	Account(Female)	Account Name	Followers	Following	Posts	Profile Image	Retweets	Shortbio	Tagged Tweets
1 Account/Mala)	Boarcon's r										
1. Account(Male)	n_value	_									
	Upper 05% Cl										
	Lawer 05% Cl	_									
	Lower 95% CI	-									
2. Account(Female)	Pearson's r	0.546**	_								
	p-value	0.007	-								
	Upper 95% CI	0.782	-								
	Lower 95% CI	0.173	-								
2.4	Bernarde e	0.107	0.157								
3. Account Name	Pearson's r	0.187	0.157	-							
	p-value	0.392	0.475	-							
	Upper 95% CI	0.557	0.534	-							
	Lower 95% CI	-0.244	-0.273	-							
4. Followers	Pearson's r	0.697***	0.418*	0.058	_						
	p-value	< .001	0.047	0.792	-						
	Upper 95% CI	0.862	0.708	0.459	-						
	Lower 95% CI	0.400	0.007	-0.363	-						
E Following	Deersen's v	0.276	0.216	0.111	0.669***						
5. Following	Pearson's r	0.276	0.210	0.111	0.008	_					
	p-value	0.202	0.521	0.613	< .001	_					
	Upper 95% CI	0.018	0.577	0.501	0.847	-					
	Lower 95% CI	-0.153	-0.215	-0.315	0.353	-					
6. Posts	Pearson's r	0.357	0.198	0.323	0.601**	0.649***	_				
	p-value	0.094	0.364	0.133	0.002	< .001	-				
	Upper 95% CI	0.671	0.564	0.649	0.812	0.837	-				
	Lower 95% CI	-0.064	-0.233	-0.103	0.252	0.323	_				
7. Profile Image	Pearson's r	0.205	0.080	0.722***	0.366	0.423*	0.545**	_			
	n-value	0.348	0.716	< .001	0.086	0.044	0.007	_			
	Linner 95% Cl	0.569	0.477	0.874	0.676	0.711	0.781	-			
	Lower 95% CI	-0.226	-0.343	0.440	-0.054	0.013	0.171	_			
	201101 5550 01	01220	015 15	01110	01051	01015	01272				
8. Retweets	Pearson's r	0.014	-0.007	0.041	0.260	0.083	0.171	0.272	-		
	p-value	0.949	0.976	0.853	0.231	0.706	0.435	0.209	-		
	Upper 95% CI	0.424	0.407	0.446	0.607	0.479	0.545	0.615	-		
	Lower 95% CI	-0.400	-0.418	-0.378	-0.170	-0.341	-0.259	-0.158	-		
9. Shortbio	Pearson's r	0.537**	0.504*	0.261	0.582**	0.394	0.510*	0.310	0.054	_	
	p-value	0.008	0.014	0.228	0.004	0.063	0.013	0.151	0.807	_	
	Upper 95% CI	0.777	0.759	0.608	0.802	0.694	0.762	0.640	0.456	-	
	Lower 95% CI	0.160	0.116	-0.169	0.223	-0.022	0.123	-0.118	-0.366	-	
10. Tagged Tweets	Pearson's r	0.122	0.059	-0.028	-0.093	0.098	-0.209	0.040	-0.110	0.060	-
	p-value	0.579	0.790	0.900	0.673	0.655	0.338	0.856	0.618	0.784	-
	Upper 95% CI	0.509	0.460	0.389	0.332	0.491	0.222	0.445	0.317	0.461	-
	Lower 95% CI	-0.305	-0.362	-0.435	-0.486	-0.327	-0.572	-0.378	-0.499	-0.361	-

Figure 23: Results from H1 Pearson Correlation for Twitter Users in UK

Linear Regression

Model Sun	nmary – Accoun	t(Female)								
Model	R	R ² Adjı	usted R ²	RMSE	R ² Change	F Chang	e df	1	df2	р
H1	0.969	0.938	0.932	1.247	7 0.938	152.07	2 2	2	20	< .001
ANOVA										
Model		Sum of Squar	es df	I	Mean Square	F	р	_		
H1	Regression	496.36	o :	2	248.180	159.675	< .001			
	Residual	32.64	0 2	1	1.554					
	Total	529.00	0 23	3				-		
Coefficient	ts									
								959	% CI	_
Model		Unstandardized	Standard	Error	Standardized	t	р	Lower	Upper	_
H1	Followers	0.503	0.	184	0.603	2.735	0.012	0.120	0.885	
	Shortbio	0.513	0.	231	0.586	2.218	0.038	0.032	0.995	

Figure 24: Results from H1 Regression test for Twitter Account(Female) in UK

Model	R	R ²	Adjusted R ²	RMS	E R ² Change	F Change	e df1	df	2	р
H1	0.976	0.952	0.948	1.0	35 0.952	199.290	2	2	20 <	.00
ANOVA										
Model		Sum of Sq	uares	df	Mean Square	F	р	-		
H1	Regression	448	.495	2	224.248	209.254	< .001			
	Residual	22	.505	21	1.072					
	Total	471	.000	23						
Coefficient	s									
								95%	S CI	
Model		Unstandardiz	ed Stand	ard Error	Standardized	t	р	Lower	Upper	_
H1	Followers	0.665		0.153	0.666	4.358	< .001	0.348	0.983	
	Shortbio	0.249	1	0.192	0.237	1.296	0.209	-0.151	0.649	

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HIGHTE / N. R	eguite from H	l Regression	test for 1	Witter Acco	ninf(Male)	1n I K
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0		0				

Variable		Account(Female)	Account(Male)	Account Name	Comments/Like	Friend's List	Life Events	Posts	Profile Image	Short Bio
1. Account(Female)	Pearson's r	_								
	p-value	-								
	Upper 95% CI	-								
	Lower 95% CI	-								
2. Account(Male)	Pearson's r	0.179	_							
	p-value	0.091	-							
	Upper 95% CI	0.372	-							
	Lower 95% CI	-0.029	-							
3. Account Name	Pearson's r	-0.069	-0.153	_						
	p-value	0.519	0.150	-						
	Upper 95% CI	0.140	0.056	-						
	Lower 95% CI	-0.272	-0.349	-						
4. Comments/Like	Pearson's r	0.110	0.332**	0.148	_					
	p-value	0.303	0.001	0.164	_					
	Upper 95% CI	0.310	0.504	0.344	_					
	Lower 95% CI	-0.100	0.134	-0.061	-					
5. Friend's List	Pearson's r	0.066	0.222*	0.168	0.507***	_				
	p-value	0.539	0.036	0.113	< .001	-				
	Upper 95% CI	0.269	0.410	0.363	0.646	-				
	Lower 95% CI	-0.143	0.015	-0.040	0.335	-				
6. Life Events	Pearson's r	0.066	0.337**	0.038	0.514***	0.410***	_			
	p-value	0.537	0.001	0.720	< .001	< .001	-			
	Upper 95% CI	0.269	0.508	0.244	0.652	0.569	-			
	Lower 95% CI	-0.143	0.139	-0.170	0.343	0.222	_			
7. Posts	Pearson's r	-0.199	0.206	0.165	0.582***	0.407***	0.404***	_		
	p-value	0.061	0.051	0.119	< .001	< .001	< .001	-		
	Upper 95% CI	0.009	0.396	0.360	0.704	0.566	0.564	-		
	Lower 95% CI	-0.390	-0.001	-0.043	0.426	0.218	0.215	_		
8. Profile Image	Pearson's r	0.089	0.024	0.475***	0.211*	0.291**	-0.008	0.293**	_	
	p-value	0.404	0.823	< .001	0.046	0.005	0.942	0.005	_	
	Upper 95% CI	0.291	0.230	0.621	0.400	0.470	0.200	0.472	-	
	Lower 95% CI	-0.120	-0.184	0.298	0.004	0.089	-0.215	0.092	-	
9. Short Bio	Pearson's r	-0.248*	0.222*	0.192	0.341***	0.378***	0.498***	0.394***	0.183	_
	p-value	0.018	0.036	0.071	< .001	< .001	< .001	< .001	0.084	-
	Upper 95% CI	-0.043	0.410	0.383	0.512	0.543	0.639	0.556	0.376	_
	Lower 95% CI	-0.433	0.015	-0.016	0.144	0.186	0.324	0.203	-0.025	_

* p < .05, ** p < .01, *** p < .001

Figure 26: Results from H1 Pearson Correlation for Facebook Users in US

Model	R	R ²	Adjusted R ²	RMS	E R ² Change	F Change	df1	d d	f2	р
H1	0.828	0.686	0.682	2.3	18 0.686	191.995	1		88	< .001
ANOVA										
Model		Sum of Sq	uares	df	Mean Square	F	р	-		
H1	Regression	1043.	.649	1	1043.649	194.177	< .001			
	Residual	478.	351	89	5.375					
	Total	1522.	.000	90						
Coefficient	s									_
								95	% CI	_
Model		Unstandardize	d Stand	ard Error	Standardized	t	р	Lower	Upper	_
H ₁	Short Bio	0.912		0.065	1.051	13.935	< .001	0.782	1.042	

Figure 27: Results from H1 Regression test for Facebook Account(Female) in US

Linear Regression

Model Sun	nmary - Account(M	Male)									
Model	R	R ²	Adjusted R ²	I	RMSE R	² Change	F Cha	nge	df1	df2	р
H1	0.927	0.859	0.854		1.414	0.859	174.9	983	3	86	< .001
ANOVA											
Model		Sum of	Squares	df	Mean S	quare	F	F)		
H1	Regression	10	62.015	3	354	.005	177.017	< .	001		
	Residual	1	73.985	87	2	.000					
	Total	12	36.000	90							
Coefficien	ts									95%	
Model		Unst	andardized	Stan	dard Error	Standa	rdized	t	р	Lower	Upper
н,	Short Bio		0.193		0.106	0	.218	1.830	0.071	-0.017	0.403
	Life Events		0.206		0.113	0	.252	1.823	0.072	-0.019	0.432
	Comments/Like		0.449		0.096	0	.494	4.679	< .001	0.258	0.640

Figure 28: Results from H1 Regression test for Facebook Account(Male) in US

Variable		Account(Male)	Account(Female)	Account Name	Followers	Following	Posts	Profile Image	Tagged Post
1. Account(Male)	Pearson's r	_							
	p-value	-							
	Upper 95% CI	_							
	Lower 95% CI	-							
2. Account(Female)	Pearson's r	0.316*	_						
	p-value	0.016	_						
	Upper 95% CI	0.531	_						
	Lower 95% CI	0.062	-						
3. Account Name	Pearson's r	-0.074	0.134	_					
	p-value	0.582	0.316	_					
	Upper 95% CI	0.188	0.379	_					
	Lower 95% CI	-0.326	-0.129	_					
4. Followers	Pearson's r	0.296*	0.366**	0.239	_				
	p-value	0.024	0.005	0.071	_				
	Upper 95% CI	0.515	0.571	0.468	_				
	Lower 95% CI	0.041	0.119	-0.021	_				
5. Following	Pearson's r	0.332*	0.246	0.346**	0.753***	_			
	p-value	0.011	0.062	0.008	< .001	_			
	Upper 95% CI	0.544	0.474	0.555	0.847	_			
	Lower 95% CI	0.081	-0.013	0.096	0.614	_			
6. Posts	Pearson's r	0.196	0.307*	0.286*	0.545***	0.578***	_		
	p-value	0.140	0.019	0.030	< .001	< .001	_		
	Upper 95% CI	0.433	0.523	0.507	0.704	0.728	_		
	Lower 95% CI	-0.065	0.053	0.030	0.334	0.376	_		
7. Profile Image	Pearson's r	0.064	0.127	0.620***	0.326*	0.336**	0.468***	_	
	p-value	0.635	0.340	< .001	0.012	0.010	< .001	_	
	Upper 95% CI	0.317	0.373	0.757	0.539	0.547	0.648	_	
	Lower 95% CI	-0.198	-0.135	0.430	0.074	0.085	0.238	-	
8. Tagged Posts	Pearson's r	-0.011	0.307*	0.143	0.540***	0.376**	0.430***	0.167	_
	p-value	0.932	0.019	0.284	< .001	0.004	< .001	0.209	_
	Upper 95% CI	0.248	0.524	0.387	0.700	0.578	0.619	0.408	_
	Lower 95% CI	-0.269	0.053	-0.120	0.327	0.131	0.193	-0.095	-

Figure 29: Results from H1 Pearson Correlation for Instagram Users in US

Model	R	R ² Adjus	ted R ²	RMS	E R ² Change	F Change	df1	L d	f2	р
H1	0.946	0.895 0	.891	1.39	0.895	233.977	2	2	55	< .00
ANOVA										
Model		Sum of Squares	d	f	Mean Square	F	р	_		
H1	Regression	924.358		2	462.179	238.232	< .001			
	Residual	108.642	:	56	1.940					
	Total	1033.000		58				_		
Coefficient	c									
coemcient								95%	CI	-
Model		Unstandardized	Standar	d Error	Standardized	t	p	Lower	Upper	_
H1	Followers	0.443	0	0.180	0.463	2.462	0.017	0.082	0.803	_
	Following	0 338	(183	0 3 9 0	1 845	0.070	-0.029	0 705	

Figure 30: Results from H1 Regression test for Instagram Account(Male) in US

Model	R	R ²	Adjusted R ²	' I	RMSE	R ² Change	F C	hange	df1	df2	р
H1	0.949	0.900	0.895		1.327	0.900	16	52.630	3	54	< .00
NOVA											
Model		Sum of	Squares	df	Mea	n Square	F		р		
H1	Regression	8	75.139	3	:	291.713	165.64	42	< .001		
	Residual		96.861	55		1.761					
	Total	9	72.000	58							
Coefficien	ts									059	
										937	
Model		Unstan	dardized S	standa	rd Error	Standardi	zed	t	р	Lower	Upper
H1	Posts		0.297	(0.152	0.27	71	1.953	0.056	-0.008	0.602
	Followers		0 347	(0.158	0.34	45	2.203	0.032	0.031	0.663
	1 Ollowers		0.547		0.200					0.001	

Figure 31: Results from H1 Regression test for Instagram Account(Female) in US

Pearson's Correlations													
Variable		Account(Female)	Account(Male)	Account Name	About	Badges	Connections	Education	Experience	Location	Others Named Same Name	Skills	Companies worked/working for
1. Account(Female)	Pearson's r p-value Upper 95% CI Lower 95% CI												
2. Account(Male)	Pearson's r p-value Upper 95% CI Lower 95% CI	0.247 0.206 0.567 -0.139	_										
3. Account Name	Pearson's r p-value Upper 95% CI Lower 95% CI	-0.171 0.385 0.216 -0.511	-0.016 0.935 0.359 -0.387										
4. About	Pearson's r p-value Upper 95% CI Lower 95% CI	0.282 0.146 0.593 -0.102	0.298 0.123 0.604 -0.084	0.408* 0.031 0.678 0.041	-								
5. Badges	Pearson's r p-value Upper 95% CI Lower 95% CI	0.110 0.579 0.464 -0.275	-0.196 0.318 0.191 -0.530	0.212 0.279 0.542 -0.175	0.057 0.775 0.421 -0.323								
6. Connections	Pearson's r p-value Upper 95% CI Lower 95% CI	0.100 0.613 0.456 -0.284	0.145 0.463 0.491 -0.241	-0.129 0.514 0.257 -0.479	0.101 0.611 0.457 -0.283	0.391* 0.040 0.667 0.021							
7. Education	Pearson's r p-value Upper 95% CI Lower 95% CI	-0.232 0.234 0.154 -0.557	-0.167 0.397 0.220 -0.508	0.583** 0.001 0.785 0.268	0.028 0.888 0.397 -0.349	0.270 0.165 0.584 -0.115	0.203 0.301 0.535 -0.184	-					
8. Experience	Pearson's r p-value Upper 95% CI Lower 95% CI	-0.190 0.333 0.197 -0.526	0.051 0.795 0.416 -0.328	0.377* 0.048 0.657 0.004	0.264 0.174 0.580 -0.121	0.518** 0.005 0.747 0.179	0.262 0.178 0.579 -0.123	0.207 0.291 0.538 -0.180					
9. Location	Pearson's r p-value Upper 95% CI Lower 95% CI	0.306 0.113 0.610 -0.076	0.394* 0.038 0.669 0.024	0.410* 0.030 0.679 0.044	0.580** 0.001 0.783 0.264	0.070 0.724 0.432 -0.311	0.348 0.069 0.638 -0.029	0.197 0.314 0.531 -0.190	0.402* 0.034 0.674 0.034	-			
10. Others Named Same Name	Pearson's r p-value Upper 95% CI Lower 95% CI	-0.145 0.461 0.241 -0.492	0.329 0.088 0.625 -0.050	0.467* 0.012 0.716 0.114	0.258 0.186 0.575 -0.128	0.319 0.098 0.618 -0.062	0.333 0.084 0.628 -0.046	0.280 0.150 0.591 -0.104	0.277 0.154 0.589 -0.107	0.209 0.286 0.540 -0.178	=		
11. Skills	Pearson's r p-value Upper 95% CI Lower 95% CI	0.049 0.805 0.414 -0.330	0.127 0.518 0.478 -0.258	0.346 0.071 0.637 -0.031	0.291 0.133 0.599 -0.092	0.494** 0.008 0.732 0.148	0.525** 0.004 0.751 0.189	0.122 0.538 0.473 -0.263	0.476* 0.011 0.721 0.125	0.385* 0.043 0.663 0.014	0.621*** < .001 0.807 0.322	-	
12. Companies worked/working for	Pearson's r p-value Upper 95% CI Lower 95% CI	-0.440* 0.019 -0.080 -0.698	-0.173 0.378 0.214 -0.513	0.368 0.054 0.652 -0.006	0.075 0.704 0.436 -0.306	0.152 0.441 0.497 -0.235	0.099 0.618 0.455 -0.285	0.666*** < .001 0.832 0.390	0.475* 0.011 0.720 0.123	0.148 0.453 0.494 -0.238	0.063 0.750 0.426 -0.318	-0.023 0.909 0.353 -0.392	

Figure 32: Results from H1 Pearson Correlation for LinkedIn Users in US

Model Sum	imary – Account	(Female)											
Model	R	R ²	Adjusted	R ² I	RMSE	R² Change	F Ch	ange	df1	d	lf2	р	
H1	0.828	0.685	0.67	3	1.639	0.685	56	.490	1		26	< .001	
ANOVA													
Model		Sum of	f Squares	df	Mea	an Square	F		р				
H1	Regression	1	157.506	1		157.506	58.663	<	.001				
	Residual		72.494	27		2.685							
	Total	2	230.000	28									
Coefficient	s												
												95	% CI
Model				Unstanda	ardized	Standard	Error	Standa	rdized	t	р	Lower	Upper
H1	Companies wo	orked/wor	king for	(.497	0.0	065	(.435	7.659	< .001	0.364	0.630

Figure 33: Results from H1 Regression test for LinkedIn Account(Female) in US

Linear Regression

Model Sum	nmary – Accou	nt(Male)								
Model	R	R ² A	djusted R ²	RM	SE R ² Change	F Chang	ie df	1	df2	р
H1	0.884	0.782	0.774	1.5	593 0.782	93.08	6	1	26	< .001
ANOVA										
Model		Sum of Squ	lares	df	Mean Square	F	р	_		
H1	Regressior	n 245.	444	1	245.444	96.666	< .001			
	Residual	68.	556	27	2.539					
	Total	314.	000	28				_		
Coefficient										
								95	% CI	-
Model		Unstandardized	d Standa	rd Error	Standardized	t	р	Lower	Upper	_
H1	Location	0.870		0.089	0.855	9.832	< .001	0.689	1.052	_

Figure 34: Results from H1 Regression test for LinkedIn Account(Male) in US

1. Account(Mail) Parson's r bypep 55x (1)	Variable		Account(Male)	Account(Female)	Account Name	Followers	Following	Posts	Profile Image	Retweets	Shortbio	Tagged Tweets
Depart of the second	Account(Male)	Pearson's r	_									
Lower 95% C1 2. Account(Female) Perison's r 0.141 p-value 0.603 Upper 95% C1 0.595 3. Account Name Perison's r 0.235 0.571* p-value 0.380 0.021 2. Account Name Perison's r 0.0655 0.831 p-value 0.380 0.021 1. Ower 95% C1 -0.655 0.831 1. Ower 95% C1 -0.657 0.645 1. Ower 95% C1 0.337 0.729 0.645		p-value	_									
Lower 95% C1 2. Account(Female) Pearson's r 0.141 p-value 0.603 1. Upper 95% C1 0.595 3. Account Name Pearson's r 0.235 0.573*		Upper 95% CI	-									
2. Account(Female) Pearson's r 0.141 0. Deep 95% C1 0.693 3. Account Name Pearson's r 0.235 0.571* 1. Deep 95% C1 0.655 0.831 2. Account Name Pearson's r 0.025 0.831 1. Deep 95% C1 0.655 0.831 4. Followers Pearson's r 0.008 0.264 0.219 1. Deep 95% C1 0.502 0.672 0.645 2. Deep 95% C1 0.502 0.6672 0.645 2. Deep 95% C1 0.502 0.672 0.645 2. Deep 95% C1 0.502 0.672 0.645 2. Deep 95% C1 0.502 0.672 0.645 2. Deep 95% C1 0.637 0.729 0.847 0.867 <td< td=""><td></td><td>Lower 95% CI</td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>		Lower 95% CI	-									
Boole and Manage Description Description <thdescription< th=""></thdescription<>	Account(Female)	Pearson's r	0.141	_								
upper 95% CI 0.595 3. Account Name Parsion's r 0.235 0.571* 9-value 0.380 0.021 1. Down 95% CI 0.655 0.831 1. Down 95% CI 0.655 0.831 1. Down 95% CI 0.655 0.831 1. Down 95% CI 0.608 0.264 0.219 p-value 0.977 0.323 0.415 1. Down 95% CI 0.502 0.672 0.645 1. Down 95% CI 0.502 0.672 0.645 1. Down 95% CI 0.567		p-value	0.603	-								
Lower 95% Cl -0.381 3. Account Name Pearson's r 0.380 0.571* - p-value 0.380 0.021 - - 1. Upper 95% Cl 0.655 0.831 - - 4. Followers Pearson's r 0.008 0.264 0.219 - 4. Followers Pearson's r 0.008 0.264 0.219 - 5. Following Pearson's r 0.008 0.264 0.219 - p-value 0.977 0.323 0.415 - - 1. Upper 95% Cl 0.502 0.672 0.645 - - p-value 0.481 0.163 0.013 0.066 - - 1. Upper 95% Cl 0.337 0.729 0.847 0.867 - - 1. Upper 95% Cl 0.637 0.845 0.381 0.622* - - 1. Upper 95% Cl 0.637 0.845 0.837 0.660 854 - -		Upper 95% CI	0.595	-								
3. Account Name Pearson's r p-value 0.235 0.655 0.571* 0.083 - 4. Followers Pearson's r p-value 0.097 0.323 0.415 - 4. Followers Pearson's r p-value 0.977 0.323 0.415 - 5. Following Pearson's r p-value 0.977 0.366 0.667 - 7. Polloe 0.937 0.366 0.6604* 0.650** - 8. Pearson's r p-value 0.431 0.616 0.013 0.006 - 9. Paule 0.431 0.616 0.013 0.006 - - 1. tower 95% C1 0.337 0.729 0.847 0.667 - - 6. Posts Pearson's r p-value 0.442 0.014 0.008 0.010 - 7. Profile Image Pearson's r p-value 0.432 0.617 0.472 0.262 0.909 - 7. Profile Image Pearson's r 0.060 0.017 0.472 0.262 0.909 - 8. Retweets Pearson's r 0.061 0.017 0.472 0.262 0.909		Lower 95% CI	-0.381	-								
Processin Human p-value 0.380 0.021	Account Name	Pearson's r	0 235	0.571*	_							
Upper 9% Cl 0.655 0.831 4. Followers Parson's r 0.008 0.264 0.219 4. Followers Parson's r 0.008 0.264 0.219 4. Followers Parson's r 0.008 0.264 0.219 100 per 95% Cl 0.502 0.667 -0.310 5. Following Pearson's r -0.190 0.366 0.604* 0.650** p-value 0.481 0.163 0.013 0.006 p-value 0.481 0.163 0.013 0.006 p-value 0.481 0.163 0.013 0.006 p-value 0.481 0.163 0.013 0.028 1.0wer 95% Cl 0.637 0.813* 0.667 p-value 0.642 0.178 0.585* 0.194 0.552* 0.437	Account manne	n-value	0.380	0.021	_							
Lower 55% Cl -0.295 0.105 4. Followers 55% Cl -0.295 0.108 0.264 0.219 - p-value 0.977 0.323 0.415 - - Lower 95% Cl 0.502 0.672 0.645 - - Lower 95% Cl 0.0502 0.672 0.645 - - Lower 95% Cl 0.0490 -0.267 -0.310 - - 5. Following Peason's r -0.190 0.3666 0.604* 0.650** - Lower 95% Cl -0.627 -0.158 0.155 0.228 - - 1. Upper 95% Cl 0.637 0.845 0.837 0.660 0.854 - 1. Upper 95% Cl 0.637 0.845 0.837 0.202 - - - 1. Uwer 95% Cl 0.637 0.845 0.837 0.860 0.854 - 1. Uwer 95% Cl 0.637 0.845 0.317 0.472 0.026 0.090		Unner 95% Cl	0.655	0.831	-							
4. Followers Pearson's r upper 95% CI 0.008 0.522 0.612 0.672 0.645 0.415		Lower 95% CI	-0.295	0.105	_							
4. Followers pearson's r 0.008 0.2.24 0.2.19		December 1	0.000	0.264	0.210							
p-value 0.577 0.323 0.413 Upper 95% CI 0.502 0.6672 0.613 5. Following Pearson's r -0.190 0.366 0.604* 0.550* Upper 95% CI 0.627 -0.310 Upper 95% CI 0.037 0.627 0.84* 0.806* Upper 95% CI -0.627 -0.158 0.155 0.228 6. Posts Pearson's r 0.037 0.602* 0.83* 0.622* 1. Upper 95% CI 0.637 0.845 0.837 0.860 0.854 2. Upper 95% CI 0.637 0.845 0.837 0.426 0.909 1. Upper 95% CI 0.637 0.845 0.172 0.226 0.909 2. Upper 95% CI 0.637 0.845 0.178 0.512* 0.437 2. Upper 95% CI 0.762 -0.334 0.629 0.767 </td <td>Followers</td> <td>rearsons r</td> <td>0.008</td> <td>0.204</td> <td>0.219</td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Followers	rearsons r	0.008	0.204	0.219	_						
Lower 95% Cl 0.040 -0.267 -0.310 - 5. Following Pearson's r -0.190 0.366 0.604* 0.650** - p-value 0.481 0.163 0.013 0.006 - Upper 95% Cl 0.337 0.729 0.847 0.867 - Lower 95% Cl 0.027 -0.158 0.155 0.228 - 6. Posts Pearson's r 0.207 0.602* 0.583* 0.634* 0.622* - p-value 0.442 0.014 0.018 0.008 0.010 - Lower 95% Cl 0.637 0.842 0.014 0.018 0.008 0.010 - Lower 95% Cl 0.637 0.842 0.014 0.018 0.008 0.854 - Upper 95% Cl 0.637 0.843 0.855* 0.194 0.552* 0.437 - Lower 95% Cl 0.423 0.619 0.838 0.629 0.823 0.767 - Upper 95% Cl 0.453 0.619 0.838 0.629 0.823 0.767 - Lower 95% Cl 0.453 0.619 0.838 0.629 0.823 0.767 - 1.0wer 95% Cl 0.453 0.619 0.838 0.629 0.823 0.767 - 8. Retweets Pearson's r 0.052 -0.349 0.126 -0.344 0.014 <0.016 0.172 - 1.0wer 95% Cl 0.760 0.726 0.836 0.803 0.14 <0.010 0.172 - 1.0wer 95% Cl 0.760 0.726 0.836 0.803 0.844 0.396 0.725 - 1.0wer 95% Cl 0.760 0.726 0.836 0.803 0.844 0.396 0.725 - 1.0wer 95% Cl 0.760 0.721 0.018 0.043 0.014 <0.010 1.72 - 1.0wer 95% Cl 0.760 0.726 0.836 0.803 0.844 0.396 0.725 - 1.0wer 95% Cl 0.760 0.726 0.836 0.803 0.844 0.396 0.725 - 1.0wer 95% Cl 0.760 0.721 0.018 0.431 0.543* 0.775*** 0.459 0.72 9. Shortbio Pearson's r 0.037 0.445 0.241 0.431 0.543* 0.777*** 0.457 0.755 - 1.0wer 95% Cl 0.523 0.771 0.658 0.764 0.818 0.919 0.796 0.833 - 10. Tagged Tweets Pearson's r 0.027 0.050 0.285 0.387 0.366 0.628** 0.317 0.669** 0.626**		p-value	0.977	0.525	0.415	_						
Lower 95% Cl -0.190 -0.267 -0.310 - 5. Following Pearson's r -0.190 0.366 0.604* 0.650** - Upper 95% Cl 0.337 0.729 0.847 0.867* - - Lower 95% Cl -0.627 -0.158 0.155 0.228 - - 6. Posts Pearson's r 0.207 0.602* 0.583* 0.622* - - 1. Upper 95% Cl 0.637 0.845 0.837 0.860 0.854 - 1. Upper 95% Cl 0.637 0.845 0.837 0.460 0.854 - 1. Upper 95% Cl 0.637 0.845 0.837 0.460 0.854 - 1. Upper 95% Cl 0.637 0.845 0.827 0.437 - - 2. Upper 95% Cl 0.637 0.845 0.828 0.767 - - 3. Retweets Pearson's r 0.0464 0.361 0.511* 0.588* 0.745*** 0.359 <t< td=""><td></td><td>Lawer 05% Cl</td><td>0.302</td><td>0.072</td><td>0.045</td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		Lawer 05% Cl	0.302	0.072	0.045	_						
5. Following Pearson's r -0.190 0.366 0.604* 0.650** p-value 0.481 0.163 0.001 1. Upper 95% C1 0.337 0.729 0.847 0.667 6. Posts Pearson's r 0.207 0.602* 0.583* 0.664*** 0.622* 6. Posts Pearson's r 0.207 0.602* 0.583* 0.634*** 0.622* 7. Profile Image Pearson's r 0.037 0.842 0.837 0.860 0.010 7. Profile Image Pearson's r -0.092 0.178 0.585* 0.194 0.552* 0.437 7. Profile Image Pearson's r 0.043 0.610 0.854 8. Retweets Pearson's r 0.462 0.610 0.814 0.078 -0.075 9. Shortbio -0.562 -0.349 0.126 -0.334 0.078 -0.075 9. Shortbio Pearson's r 0.043 0.360 0.514* 0.398* 0.745****<		Lower 95% CI	-0.490	-0.267	-0.510	_						
p-value 0.481 0.163 0.006 - Upper 95% CI 0.337 0.729 0.847 0.667 - Lower 95% CI -0.627 -0.158 0.155 0.228 - - 6. Posts Pearson's r 0.207 0.602* 0.583* 0.634** 0.622* - p-value 0.442 0.014 0.018 0.000 - - 1.0wer 95% CI 0.637 0.845 0.837 0.860 0.854 - 1.0wer 95% CI 0.637 0.845 0.837 0.202 0.183 - 7. Profile Image Pearson's r -0.092 0.178 0.585* 0.194 0.552* 0.437 - 9value 0.736 0.510 0.017 0.472 0.026 0.090 - 1.0wer 95% CI 0.762 -0.349 0.126 -0.334 0.767 - 1.0wer 95% CI 0.768 0.726 0.336 0.603 0.844 0.906	Following	Pearson's r	-0.190	0.366	0.604*	0.650**	-					
Lower 95% CI 0.337 0.729 0.847 0.867 Lower 95% CI 0.627 -0.558 0.155 0.228 5. Posts Pearson's r 0.207 0.602* 0.583* 0.634* 0.622* Upper 95% CI 0.637 0.845 0.837 0.660 0.854 Lower 95% CI 0.022 0.151 0.123 0.020 0.183 7. Profile Image Pearson's r 0.092 0.178 0.585* 0.194 0.552* 0.437 7. Profile Image Pearson's r 0.052 0.151 0.017 0.472 0.026 0.090 Lower 95% CI 0.423 0.619 0.838 0.629 0.823 0.767 Lower 95% CI 0.0423 0.619 0.838 0.629 0.823 0.767 Lower 95% CI 0.0423 0.619 0.838 0.629 0.823 0.767 Lower 95% CI 0.0423 0.619 0.818 0.629 0.823 0.767 8. Retweets Pearson's r 0.044 0.036 0.581* 0.511* 0.598* 0.745*** 0.359 Lower 95% CI 0.780 0.726 0.836 0.803 0.844 0.906 0.726 Lower 95% CI 0.780 0.726 0.836 0.803 0.844 0.906 0.726 Lower 95% CI 0.780 0.726 0.836 0.803 0.844 0.906 0.726 Lower 95% CI 0.780 0.726 0.836 0.431 0.543* 0.777*** 0.497 0.575* 1.0* Parate 0.891 0.084 0.369 0.066 0.030 <.001 0.050 0.020 Upper 95% CI 0.523 0.771 0.658 0.764 0.818 0.919 0.705 0.833 10. Tagged Tweets Pearson's r 0.270 0.050 0.285 0.387 0.366 0.628** 0.317 0.669** 0.626**		p-value	0.481	0.163	0.013	0.006	-					
Lower 95% Cl -0.627 -0.158 0.155 0.228 6. Posts Pearson's r 0.207 0.602* 0.583* 0.622* p-value 0.442 0.014 0.018 0.008 0.010 p-value 0.627 0.845 0.837 0.860 0.854 7. Profile Image Pearson's r -0.032 0.178 0.585* 0.194 0.552* 0.437 p-value 0.736 0.510 0.017 0.026 0.990 p-value 0.736 0.510 0.017 0.026 0.990 Lower 95% Cl -0.422 0.619 0.838 0.629 0.767 Lower 95% Cl -0.423 0.619 0.318 0.629 0.767 Lower 95% Cl -0.464 0.360 0.511* 0.511* 0.512* 0.785 p-value 0.070 0.726 0.836 0.803 0.844		Upper 95% CI	0.337	0.729	0.847	0.867	-					
6. Posts Pearson's r 0.207 0.602* 0.583* 0.642* p-value 0.442 0.014 0.018 0.008 0.010 upper 95% CI 0.637 0.845 0.837 0.860 0.854 7. Profile Image P-asion's r -0.922 0.151 0.123 0.202 0.433 7. Profile Image Parson's r -0.922 0.178 0.585* 0.194 0.552* 0.437 1.0wer 95% CI 0.763 0.619 0.838 0.629 0.767 1.0wer 95% CI -0.562 -0.349 0.126 -0.334 0.078 -0.75 8. Retweets Pearson's r 0.464 0.360 0.511* 0.598* 0.745**** 0.359 1.0wp 95% CI 0.760 0.726 0.831 0.614 0.016 -0.01 1.77 - 1.0wp 95% CI 0.760 0.726 0.831 0.511* 0.598* <td< td=""><td></td><td>Lower 95% CI</td><td>-0.627</td><td>-0.158</td><td>0.155</td><td>0.228</td><td>-</td><td></td><td></td><td></td><td></td><td></td></td<>		Lower 95% CI	-0.627	-0.158	0.155	0.228	-					
p-value 0.42 0.014 0.018 0.088 0.010 Upper 95% CI 0.637 0.845 0.817 0.800 0.854 1. cowr 95% CI -0.322 0.151 0.123 0.202 0.183 7. Profile Image Pearson's r -0.092 0.178 0.585* 0.194 0.552* 0.437 p-value 0.0736 0.510 0.07 0.472 0.026 0.090 1. upper 95% CI 0.423 0.619 0.838 0.629 0.823 0.767 1. upper 95% CI 0.454 0.360 0.581* 0.511* 0.598* 0.745*** 0.359 8. Retweets Parson's r 0.464 0.360 0.581* 0.511* 0.598* 0.745*** 0.359 1. upper 95% CI 0.700 0.711 0.018 0.043 0.014 <.001	Posts	Pearson's r	0.207	0.602*	0.583*	0.634**	0.622*	_				
Image log system 0.637 0.845 0.837 0.860 0.854 Lower 95% CI -0.322 0.151 0.123 0.202 0.183 7. Profile Image Lower 95% CI -0.032 0.151 0.123 0.202 0.183 7. Profile Image Lower 95% CI -0.032 0.516 0.017 0.042 0.026 0.090 Lower 95% CI 0.423 0.619 0.883 0.629 0.767 Lower 95% CI -0.522 -0.349 0.126 -0.334 0.078 -0.075 8. Retwests Pearson's r 0.464 0.361 0.51* 0.598 0.745*** 0.359 Lower 95% CI 0.760 0.726 0.021 0.021 0.014 <.001		p-value	0.442	0.014	0.018	0.008	0.010	-				
Lower 95% Cl -0.322 0.151 0.123 0.202 0.183 7. Profile Image p-value 0.736 0.517 0.585* 0.194 0.552* 0.437 p-value 0.736 0.510 0.017 0.472 0.262 0.437 p-value 0.736 0.510 0.017 0.472 0.026 0.090 1.0per 95% Cl 0.423 0.619 0.838 0.629 0.823 0.767 8. Retwests Parson's r 0.464 0.360 0.511* 0.518* 0.745*** 0.359 9value 0.070 0.171 0.018 0.043 0.014 <.001		Upper 95% CI	0.637	0.845	0.837	0.860	0.854	_				
7. Profile Image p-value Pearson's r 0.423 -0.092 0.423 0.178 0.510 0.585* 0.017 0.194 0.027 0.522* 0.026 0.037		Lower 95% CI	-0.322	0.151	0.123	0.202	0.183	-				
p-value 0.736 0.510 0.017 0.722 0.026 0.090 Upper 95% CI 0.423 0.619 0.838 0.629 0.823 0.767 Lower 95% CI -0.562 -0.349 0.126 -0.334 0.078 -0.075 8. Retweets Pearson's r 0.644 0.360 0.581* 0.511* 0.598* 0.745**** 0.359 Jupper 95% CI 0.760 0.771 0.018 0.043 0.014 001 1.72 - Upper 95% CI 0.760 0.726 0.833 0.844 0.906 0.726 - Lower 95% CI 0.704 -0.165 0.120 0.021 0.146 0.396 9. Shortbio Pearson's r 0.037 0.445 0.241 0.431 0.543* 0.777*** 0.497 0.575* - 9. Shortbio Pearson's r 0.523 0.771 0.658 0.764 0.818 0.919 0.756	Profile Image	Pearson's r	-0.092	0.178	0.585*	0.194	0.552*	0.437	_			
Upper 95% Cl 0.423 0.619 0.838 0.629 0.823 0.767 8. Retweets Parson's r 0.464 0.360 0.581* 0.511* 0.598* 0.745*** 0.359 8. Retweets Parson's r 0.464 0.360 0.581* 0.511* 0.598* 0.745*** 0.359 9. value 0.070 0.171 0.018 0.014 <.001		p-value	0.736	0.510	0.017	0.472	0.026	0.090	-			
Lower 95% Cl -0.52 -0.349 0.126 -0.334 0.078 -0.075 8. Retweets Pearson's r 0.464 0.360 0.581* 0.511* 0.598* 0.745*** 0.359 p-value 0.070 0.771 0.018 0.043 0.014 0151 0.128 p-value 0.070 0.771 0.018 0.043 0.014 001 0.727 Lower 95% Cl 0.780 0.726 0.836 0.803 0.844 0.906 0.726 9. Shortbio Pearson's r 0.037 0.445 0.241 0.411 0.543* 0.777*** 0.497 0.575* 9. Shortbio Pearson's r 0.523 0.771 0.658 0.764 0.818 0.919 0.576 0.833 Upper 95% Cl 0.523 0.771 0.658 0.764 0.818 0.919 0.796 0.833 Upper 95% Cl -0.657 -0.055		Upper 95% CI	0.423	0.619	0.838	0.629	0.823	0.767	-			
8. Retweets Pearson's r 0.464 0.360 0.581* 0.511* 0.598* 0.745*** 0.359 p-value 0.070 0.171 0.018 0.043 0.014 <.001		Lower 95% CI	-0.562	-0.349	0.126	-0.334	0.078	-0.075	-			
p-value 0.070 0.171 0.018 0.043 0.014 <.001 0.172 Upper 95% CI 0.780 0.726 0.836 0.803 0.844 0.996 0.726 Lower 95% CI -0.041 -0.165 0.120 0.021 0.146 0.396 -0.166 9. Shortbio Pearson's r 0.037 0.445 0.241 0.431 0.543* 0.777*** 0.497 0.575* upper 95% CI 0.523 0.771 0.658 0.684 0.319 0.796 0.833 - Upper 95% CI 0.523 0.771 0.658 0.362 0.064 0.457 0.001 0.111 - 10. Tagged Tweets Pearson's r 0.270 0.050 0.285 0.387 0.366 0.628** 0.317 0.669** 0.626**	Retweets	Pearson's r	0.464	0.360	0.581*	0.511*	0.598*	0.745***	0.359	_		
Upper 95% CI 0.780 0.726 0.836 0.803 0.844 0.906 0.726 - 9. Shortbio Pearson's r 0.037 0.455 0.241 0.431 0.543* 0.777** 0.497 0.575* - p-value 0.891 0.082 0.764 0.818 0.919 0.796 0.833 - Upper 95% CI 0.523 0.771 0.658 0.764 0.818 0.919 0.796 0.833 - Lower 95% CI 0.427 0.050 -0.285 0.366 0.628** 0.011 - 10. Tagged Tweets Pearson's r 0.270 0.050 0.285 0.387 0.366 0.628** 0.317 0.669** 0.626**		p-value	0.070	0.171	0.018	0.043	0.014	< .001	0.172	_		
Lower 95% Cl -0.041 -0.165 0.120 0.021 0.146 0.396 -0.166 9. Shortbio p-value 0.837 0.445 0.241 0.411 0.543* 0.77*** 0.497 0.575* upper 95% Cl 0.891 0.084 0.369 0.966 0.300 001 0.505 0.020 upper 95% Cl 0.523 0.771 0.658 0.674 0.818 0.919 0.796 0.833 10. Tagged Tweets Pearson's r 0.270 0.055 0.285 0.387 0.366 0.628* 0.317 0.669** 0.626**		Upper 95% CI	0.780	0.726	0.836	0.803	0.844	0.906	0.726	-		
9. Shortbio Pearson's r 0.037 0.445 0.241 0.431 0.543* 0.777*** 0.497 0.575* - p-value 0.891 0.084 0.369 0.096 0.030 <.001		Lower 95% CI	-0.041	-0.165	0.120	0.021	0.146	0.396	-0.166	-		
Janotod Califie Colifie <	Shorthio	Pearson's r	0.037	0.445	0 241	0.431	0.543*	0 777***	0.497	0.575*	_	
Upper 95% Cl 0.53 0.771 0.658 0.764 0.818 0.919 0.796 0.833 Lower 95% Cl -0.467 -0.055 -0.290 -0.082 0.064 0.419 0.796 0.833 10. Tagged Tweets Pearson's r 0.270 0.050 0.285 0.387 0.366 0.628* 0.311		n-value	0.891	0.084	0.369	0.096	0.030	< 001	0.050	0.020	_	
Lower 95% Cl -0.467 -0.055 -0.290 -0.082 0.064 0.457 0.001 0.111 - 10. Tagged Tweets Pearson's r 0.270 0.050 0.285 0.387 0.366 0.628** 0.317 0.669** 0.626**		Upper 95% CI	0.523	0.771	0.658	0.764	0.818	0.919	0.796	0.833	_	
10. Tagged Tweets Pearson's r 0.270 0.050 0.285 0.387 0.366 0.628** 0.317 0.669** 0.626**		Lower 95% CI	-0.467	-0.065	-0.290	-0.082	0.064	0.457	0.001	0.111	-	
10. ragged iweets Pearson's r 0.270 0.050 0.285 0.387 0.366 0.628** 0.317 0.669** 0.626**	Towned Towner	December 1	0.370	0.050	0.305	0.307	0.366	0.0000	0.217	0.0000	0.020**	
	Tagged Tweets	Pearson's r	0.270	0.050	0.285	0.387	0.366	0.628**	0.317	0.669**	0.626**	-
p-value 0.515 0.655 0.725 0.139 0.164 0.009 0.231 0.005 0.009		p-value	0.313	0.855	0.285	0.139	0.164	0.009	0.231	0.005	0.009	-
upper 95% CL 0.075 0.552 0.664 0.740 0.729 0.857 0.703 0.875 0.856 0.856		Upper 95% CI	0.675	0.532	0.684	0.740	0.729	0.857	0.703	0.875	0.856	-

Figure 35: Results from H1 Pearson Correlation for Twitter Users in US

Linear Regression

Model Sun	nmary – Account(Female)									
Model	R	R ²	Adjusted R ²	R	MSE	R² Change	F Ch	ange	df1	df2	р
H1	0.975	0.950	0.943	1	1.131	0.950	124	.437	2	13	< .001
ANOVA											
Model		Sum of	Squares	df	Mear	n Square	F		р		
H1	Regression	3	43.079	2	1	71.540	134.009) <	.001		
	Residual		17.921	14		1.280					
	Total	3	61.000	16							
Coefficient	ts										
										95%	CI
Model		Unsta	ndardized	Standa	rd Error	Standard	lized	t	р	Lower	Upper
H1	Posts		0.757		0.166	0.6	587	4.564	< .001	0.401	1.113
	Account Name		0.226		0.190	0.3	314	1.192	0.253	-0.181	0.633

Figure 36: Results from H1 Regression test for Twitter Account(Female) in US

Hypothesis 2: Platform usage characteristics influence the decision to accept the accounts at face value whether it is real/fake.

Pearson's Correlations							
Variable		Account(Female)	Account(Male)	FA Identification Help	FA Influence	Frequent Usage	Daily Usage
1. Account(Female)	Pearson's r	_					
	p-value	-					
	Upper 95% CI	-					
	Lower 95% CI	-					
2. Account(Male)	Pearson's r	0.105	_				
	p-value	0.326	_				
	Upper 95% CI	0.307	_				
	Lower 95% CI	-0.105	-				
3. FA Identification Help	Pearson's r	0.119	0.205	_			
	p-value	0.266	0.054	-			
	Upper 95% CI	0.320	0.397	_			
	Lower 95% CI	-0.091	-0.003	-			
4. FA Influence	Pearson's r	0.029	0.228*	0.492***	_		
	p-value	0.784	0.032	< .001	_		
	Upper 95% CI	0.236	0.416	0.635	-		
	Lower 95% CI	-0.180	0.021	0.317	-		
5. Frequent Usage	Pearson's r	-0.066	0.000	0.000	0.045	_	
	p-value	0.537	1.000	1.000	0.675	_	
	Upper 95% CI	0.144	0.208	0.208	0.251	-	
	Lower 95% CI	-0.271	-0.208	-0.208	-0.165	-	
6. Daily Usage	Pearson's r	-0.039	0.145	0.425***	0.505***	0.295**	_
	p-value	0.719	0.176	< .001	< .001	0.005	_
	Upper 95% CI	0.171	0.343	0.582	0.646	0.474	-
	Lower 95% CI	-0.245	-0.066	0.238	0.332	0.092	_

* p < .05, ** p < .01, *** p < .001

Figure 37: Results from H2 Pearson Correlation for Facebook Users in India

Linear Regression

Model Sun	nmary – Account	(Male)									
Model	R	R ²	Adjusted R	2 R	MSE	R² Change	F Cha	ange	df1	df2	р
H1	0.823	0.677	0.674	2	.086	0.677	182	527	1	87	< .001
ANOVA											
Model		Sum of	Squares	df	Mea	n Square	F		р		
н,	Regression	8	03.174	1	1	803.174	184.625		< .001		
	Residual	3	82.826	88		4.350					
	Total	11	86.000	89							
Coefficient	ts										
										959	K CI
Model		Unstand	lardized S	tandard	Error	Standardiz	ed	t	р	Lower	Upper
H1	FA Influence		0.985	0.0	073	1.10	8 13	.588	< .001	0.841	1.130

Figure 38: Results from H2 Regression test for Facebook Account(Male) in India

Variable		Account(Male)	Account(Female)	Daily Usage	FA Identification Help	FA Influence	Frequent Usage
1. Account(Male)	Pearson's r	_					
	p-value	_					
	Upper 95% CI	-					
	Lower 95% CI	-					
2. Account(Female)	Pearson's r	0.456***	_				
	p-value	< .001	-				
	Upper 95% CI	0.626	-				
	Lower 95% CI	0.244	-				
3. Daily Usage	Pearson's r	0.058	0.299*	_			
	p-value	0.637	0.013	_			
	Upper 95% CI	0.293	0.502	-			
	Lower 95% CI	-0.183	0.065	_			
4. FA Identification Help	Pearson's r	-0.085	0.154	0.531***	_		
	p-value	0.490	0.209	< .001	_		
	Upper 95% CI	0.156	0.379	0.683	-		
	Lower 95% CI	-0.317	-0.087	0.335	-		
5. FA Influence	Pearson's r	-0.058	0.155	0.684***	0.553***	_	
	p-value	0.640	0.207	< .001	< .001	-	
	Upper 95% CI	0.183	0.379	0.793	0.699	-	
	Lower 95% CI	-0.292	-0.087	0.532	0.362	-	
6. Frequent Usage	Pearson's r	0.197	0.261*	0.411***	0.124	0.016	_
	p-value	0.107	0.032	< .001	0.316	0.900	-
	Upper 95% CI	0.416	0.470	0.591	0.352	0.253	-
	Lower 95% CI	-0.043	0.024	0.191	-0.118	-0.224	-

Figure 39: Results from H2 Pearson Correlation for Instagram Users in India

Linear Regression

Model Sun	nmary – Account(I	Female)									
Model	R	R ²	Adjusted R ²	R	MSE	R ² Change	F Ch	ange	df1	df2	р
H1	0.933	0.870	0.866	1	.530	0.870	217	.756	2	65	< .001
ANOVA											
Model		Sum of	Squares	df	Mean	Square	F	F)		
H1	Regression	10	35.458	2	5	17.729	221.106	<.	001		
	Residual	1	54.542	66		2.342					
	Total	11	90.000	68							
Coefficien	ts									959	K CI
Model		Unsta	andardized	Standa	ard Error	Standa	rdized	t	р	Lower	Upper
н	Frequent Usage		0.606		0.091	0	.513	6.670	< .001	0.425	0.788
	Daily Usage		0.269		0.131	0	.280	2.058	0.044	0.008	0.529

Figure 40: Results from H2 Regression test for Instagram Account(Female) in India

Variable		Account(Female)	Account(Male)	Daily Usage	FA Identification Help	FA Influence	Frequent Usage
1. Account(Female)	Pearson's r	_					
	p-value	-					
	Upper 95% CI	-					
	Lower 95% CI	-					
2. Account(Male)	Pearson's r	0.523**	_				
	p-value	0.004	_				
	Upper 95% CI	0.750	_				
	Lower 95% CI	0.187	-				
3. Daily Usage	Pearson's r	0.236	0.205	_			
	p-value	0.226	0.296	_			
	Upper 95% CI	0.560	0.537	_			
	Lower 95% CI	-0.150	-0.182	_			
4. FA Identification Help	Pearson's r	0.382*	0.273	0.732***	_		
	p-value	0.045	0.160	< .001	-		
	Upper 95% CI	0.661	0.586	0.868	-		
	Lower 95% CI	0.010	-0.111	0.493	-		
5. FA Influence	Pearson's r	0.431*	0.323	0.756***	0.890***	_	
	p-value	0.022	0.094	< .001	< .001	-	
	Upper 95% CI	0.692	0.621	0.881	0.948	_	
	Lower 95% CI	0.069	-0.057	0.534	0.774	_	
6. Frequent Usage	Pearson's r	-0.043	0.221	0.448*	0.299	0.181	_
	p-value	0.829	0.259	0.017	0.123	0.356	-
	Upper 95% CI	0.336	0.549	0.703	0.604	0.519	-
	Lower 95% CI	-0.409	-0.166	0.090	-0.084	-0.206	_

Figure 41: Results from H2 Pearson Correlation for LinkedIn Users in India

Linear Regression

Model Sun	nmary – Account(Fe	male)								
Model	R	R²	Adjusted R ²		RMSE R ² Chan	ge F Change	e df1	d	f2	р
H1	0.849 0	.721	0.700		1.873 0.72	1 32.331	2		25 <	.001
ANOVA										
Model	:	Sum o	f Squares	df	Mean Square	F	р			
H1	Regression	2	235.824	2	117.912	33.624	< .001			
	Residual		91.176	26	3.507					
	Total	3	327.000	28						
Coefficient	ts									
									955	6 CI
Model			Unstandardiz	ed	Standard Error	Standardized	t	р	Lower	Upper
H1	FA Influence		0.490)	0.584	0.415	0.839	0.409	-0.711	1.690
	FA Identification I	Help	0.738	3	0.544	0.615	1.356	0.187	-0.381	1.857

Figure 42: Results from H2 Regression test for LinkedIn Account(Female) in India

Pearson's Correlations							
Variable		Account(Male)	Account(Female)	Daily Usage	FA Identification Help	FA Influence	Frequent Usage
1. Account(Male)	Pearson's r	_					
	p-value	_					
	Upper 95% CI	-					
	Lower 95% CI	_					
2. Account(Female)	Pearson's r	0.567*	_				
	p-value	0.014	-				
	Upper 95% CI	0.818	_				
	Lower 95% CI	0.136	-				
3. Daily Usage	Pearson's r	0.544*	0.705**	_			
, ,	p-value	0.020	0.001	_			
	Upper 95% CI	0.806	0.882	-			
	Lower 95% CI	0.103	0.355	_			
4. FA Identification Help	Pearson's r	0.356	0.639**	0.889***	_		
	p-value	0.147	0.004	< .001	-		
	Upper 95% CI	0.706	0.852	0.958	_		
	Lower 95% CI	-0.133	0.246	0.722	-		
5. FA Influence	Pearson's r	0.331	0.618**	0.915***	0.954***	_	
	p-value	0.180	0.006	< .001	< .001	_	
	Upper 95% CI	0.691	0.842	0.968	0.983	_	
	Lower 95% CI	-0.161	0.213	0.782	0.878	-	
6. Frequent Usage	Pearson's r	0.103	0.335	0.549*	0.557*	0.537*	_
	p-value	0.685	0.174	0.018	0.016	0.022	-
	Upper 95% CI	0.544	0.694	0.809	0.813	0.803	-
	Lower 95% CI	-0.382	-0.156	0.110	0.122	0.093	_

Figure 43: Results from H2 Pearson Correlation for Twitter Users in India

Linear Regression

Model Sun	nmary – Account	(Male)							
Model	R	R ² Adjust	ed R ²	RMSE	R² Change	F Chang	e df1	df2	2 р
H1	0.872	0.760 0	.746	1.921	0.760	50.571	l 1	1	6 < .00
ANOVA									
Model		Sum of Squares	d	f N	lean Square	F	р		
H1	Regression	198.270		1	198.270	53.731	< .001		
	Residual	62.730		17	3.690				
	Total	261.000		18					
Coefficient	ts							0.57	
								955	% CI
Model		Unstandardized	Stand	ard Error	Standardize	ed t	р	Lower	Upper
H1	Daily Usage	1.313		0.179	1.598	7.330	< .001	0.935	1.691

Figure 44: Results from H2 Regression test for Twitter Account(Male) in India

Model	R	R ²	Adjusted R ²	RMSE	R ² Change	F Change	df1	df2	р
H1	0.899	0.808	0.770	1.671	0.808	19.634	3	14	< .001

Model		Sum of Squares	df	Mean Square	F	р
H1	Regression	176.136	3	58.712	21.036	< .001
	Residual	41.864	15	2.791		
	Total	218.000	18			

Coefficients

							95%	CI
Model		Unstandardized	Standard Error	Standardized	t	р	Lower	Upper
H1	Daily Usage	1.188	0.644	1.747	1.846	0.085	-0.184	2.559
	FA Identification Help	0.488	0.913	0.706	0.534	0.601	-1.458	2.433
	FA Influence	-0.408	0.983	-0.623	-0.415	0.684	-2.502	1.686

Figure 45: Results from H2 Regression test for Twitter Account(Female)

in India

Variable		Account(Male)	Account(Female)	Daily Usage	FA Identification Help	FA Influence	Frequent Usage
1. Account(Male)	Pearson's r	_					
	p-value	-					
	Upper 95% CI	-					
	Lower 95% CI	-					
2. Account(Female)	Pearson's r	0.316*	_				
	p-value	0.016	_				
	Upper 95% CI	0.531	-				
	Lower 95% CI	0.062	-				
3. Daily Usage	Pearson's r	0.228	0.459***	_			
	p-value	0.085	< .001	_			
	Upper 95% CI	0.459	0.641	_			
	Lower 95% CI	-0.032	0.227	—			
4. FA Identification Help	Pearson's r	0.014	0.261*	0.318*	_		
	p-value	0.919	0.048	0.015	-		
	Upper 95% CI	0.271	0.487	0.533	_		
	Lower 95% CI	-0.246	0.003	0.065	-		
5. FA Influence	Pearson's r	0.198	0.187	0.308*	0.286*	_	
	p-value	0.136	0.159	0.019	0.029	_	
	Upper 95% CI	0.434	0.425	0.524	0.507	_	
	Lower 95% CI	-0.063	-0.075	0.054	0.030	_	
6. Frequent Usage	Pearson's r	0.184	0.421***	0.343**	0.324*	-0.129	_
	p-value	0.166	< .001	0.008	0.013	0.334	-
	Upper 95% CI	0.422	0.613	0.552	0.537	0.133	-
	Lower 95% CI	-0.078	0.183	0.093	0.071	-0.375	-

* p < .05, ** p < .01, *** p < .001

Figure 46: Results	from H2 I	Pearson	Correlation	for	Instagram	Users in
	U	S				

Model	R R ²	Adjusted R	2	RMSE R ²	Change	F Change	df1	df	2	p
H1	0.957 0.9	16 0.912		1.218	0.916	196.554	3	5	i4 <	.001
ANOVA										
Model	Su	m of Squares	df	Mean So	quare	F	р			
H1	Regression	890.454	3	296.	818	200.194	< .001			
	Residual	81.546	55	1.	483					
	Total	972.000	58							
Coefficien	ts									
									959	6 CI
Model		Unstandard	zed	Standard Er	ror S	tandardized	t	р	Lower	Upper
H1	Daily Usage	0.33	80	0.11	4	0.371	2.901	0.005	0.102	0.558
	Frequent Usage	0.56	54	0.08	9	0.491	6.358	< .001	0.386	0.742
	FA Identification He	In 0.10	6	0.16	1	0.084	0.663	0 510	-0.215	0 4 2 8

Figure 47: Results from H2 Regression test for Instagram Account(Female) in US

Pearson's Correlations							
Variable		Account(Female)	Account(Male)	Daily Usage	FA Identification Help	FA Influence	Frequent Usage
1. Account(Female)	Pearson's r	_					
	p-value	-					
	Upper 95% CI	-					
	Lower 95% CI	-					
2. Account(Male)	Pearson's r	0.247	_				
	p-value	0.206	_				
	Upper 95% CI	0.567	_				
	Lower 95% CI	-0.139	-				
3. Daily Usage	Pearson's r	0.245	0.125	_			
	p-value	0.208	0.525	_			
	Upper 95% CI	0.567	0.476	_			
	Lower 95% CI	-0.140	-0.260	_			
4. FA Identification Help	Pearson's r	0.026	0.000	0.029	_		
	p-value	0.896	1.000	0.885	-		
	Upper 95% CI	0.395	0.373	0.397	-		
	Lower 95% CI	-0.350	-0.373	-0.348	-		
5. FA Influence	Pearson's r	0.453*	-0.019	0.184	0.273	_	
	p-value	0.015	0.924	0.347	0.159	_	
	Upper 95% CI	0.707	0.357	0.522	0.587	_	
	Lower 95% CI	0.096	-0.389	-0.203	-0.111	-	
6. Frequent Usage	Pearson's r	-0.166	-0.391*	-0.067	0.324	-0.098	_
	p-value	0.399	0.040	0.736	0.092	0.621	-
	Upper 95% CI	0.221	-0.021	0.314	0.622	0.286	-
	Lower 95% Cl	-0.508	-0.667	-0.429	-0.055	-0.454	_

* p < .05, ** p < .01, *** p < .001

Figure 48: Results from H2 Pearson Correlation for LinkedIn Users in US

Model	R	R ²	Adjusted F	R ² F	RMSE	R ² Change	F	Change	df1	df2	р
H1	0.829	0.687	0.676	;	1.632	0.687		57.154	1	26	5 < .(
ANOVA											
Model		Sum of	Squares	df	Mea	an Square	F		р		
H1	Regression	1	58.085	1		158.085	59.3	53	< .001		
	Residual		71.915	27		2.664					
	Total	2	30.000	28							
Coefficient	ts										
										959	% CI
Model		Unstand	dardized S	Standard	Error	Standardiz	ed	t	р	Lower	Upper
H1	FA Influence		1.162	0.	151	1.160)	7.704	< .001	0.853	1.472

Figure 49: Results from H2 Regression test for LinkedIn Account(Female) in US

Linear Regression

Model Sun	nmary - Account(I	Male)									
Model	R	R²	Adjusted R ²	1	RMSE	R² Change	F Cha	ange	df1	df2	р
H1	0.781	0.610	0.596		2.129	0.610	40.	700	1	26	< .001
ANOVA											
Model		Sum of	Squares	df	Mean	Square	F	р			
H1	Regression	191.601		1	19	1.601	42.265	< .0	001		
	Residual	1	22.399	27		4.533					
	Total	3	14.000	28							
Coefficient	ts										
										959	% CI
Model		Unst	andardized	Stand	dard Error	Standar	dized	t	р	Lower	Upper
H1	Frequent Usage		0.773		0.119	0.	606	6.501	< .001	0.529	1.016

Figure 50: Results from H2 Regression test for LinkedIn Account(Male) in US