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DIGITAL SAFETY IN CYBERSPACE AND SOCIAL MEDIA USING AI AND ML

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TRACT

gers today have the ability to easily adopt social media and spend more time on it. This leads to tension, depression, and mental illness. Hence, it is mandatory to make them aware of the risks lenges in the environment and provide them with training in digital safety. This paper discusses and pitfalls of social media. The information about how much time teenagers spend on social and how much they are aware of digital safety is gathered through a Google form and analysed. study suggests machine learning and artificial intelligence-based methods for improving digital

words: artificial intelligence, cyber space, digital safety, machine learning, social media

uction

based technologies that assist in sharing information, beliefs, over the building of virtual networks and communities as social media (SM). People of all ages, share their information on social media from personal computers, iPads, and smart phones using social networks (SN) via mernet (figure 1). It is almost difficult to imagine life now smart phones. Many of them spend their time watching playing games, surfing, and chatting without knowing the their security.

Intelligence (AI) and Machine Learning (ML) are the technologies used to create intelligent systems. Social ring sites use AI and ML for monitoring people's activities media, predicting business plan and making people This paper, outlines the pros and cons of social media as making social media secure using AI and ML.

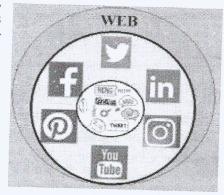


Figure 1

ges of Social Media

media connect people globally and allow them to share information instantly with a large It helps to promote and advertise products for business people. Also, act as a new brand of dors. It is one of the best entertainers. On social media, there are many communities assisting mancial support and counselling. It helps to update day-to-day information. Similarly, the ment use these platforms for spreading public awareness. Students benefit by discussing ments and tests; and teachers also use social media to support students in many ways.

ntages of Social Media

lying is the major disadvantages of social media. Anyone can send or threaten by sending or prank messages and photos. It is very hard to trace because of fallacious social accounts. is a severe attack and many people are affected by it. Generally, hackers hijack social accounts threaten them with their personal information. Face-to-face interaction rapidly decreased. mably, spending more time on social media will affect health, so many of them get addicted. media can spread fake news globally to large audience without verification. Moreover, it causes like depression, distraction in studies, sleepless nights, and loneliness.

for security issues in social media

mon activities which leads to security issues are: forget to log out from social accounts, click links, ads, mails etc., login to fake websites, connecting virtual private networks,

downloading third-party applications without knowing its terms and conditions, passwords for various social accounts (Facebook, Instagram, twitter etc.) for a long personal social accounts (Facebook, Instagram, twitter etc.)

Role of AI and ML in social media

Al is a computer technology which simulates human behaviour on machines and is used to intelligent systems such as expert systems, natural language processing, and pattern recognition is a subset of Al that enables to predict or take decisions by machine from past data (learner) without coding.

AI and ML are used in social media for monitoring malicious content and managing data, behave of consumers and their interests that helps to forecast current trends. In everyday life we have some experiences without being aware of it. Some of the examples are facial recognition showcasing advertising on Facebook, spam mail detection, junk call identification, linked recommendations for job roles, etc. The use of AI in social media brings profit in cost-effective

Literature Study

Adams Oluwadamilola Kemi [1] has represented that Facebook, WhatsApp, YouTube, and The most popular social networking sites, are examples of online communication tools. Some purposes from these technologies are educational and business activities organised via Facebook found through LinkedIn. The negative sides of these social networking sites are Internet Adam Disorder and fraudulent activities on the internet. Rituparna Das [2] has stated that the rising possible of social networking sites is becoming a significant area for cyber-crimes and terrorism crucial information. The users should protect their personal information to avoid identity misuse, and organisations should follow proper security measures to be cyber-crime safe. Sehrish et al. [3] has showed that security and privacy can be achieved by educating the privacy and using various security technologies. A user should be very careful about what sharing. If the user shared his own identity, then it should be shared in an uneditable format sattacker could not use it. Jenis Nilkanth Welukar [4] has pointed out that implementing Almsecurity enables organisations to understand prior threat patterns in the identification of novel threats.

Hayri Uygun [5] has demonstrated that social media has been transformed by AI and it consumer in more effective ways. AI closely monitors our activity and provides us with need. Sattikar [6] has pointed that a better understanding of AI and ML will allow us to be different systems with features similar to social networks, such as learning management digital libraries, promotion systems or consumer feedback systems for business. Ishfaq Management specified that social media allows large numbers of individuals to share their information specialised contact lists. However, sharing information and connecting with strangers security concerns, which have arisen as a result of our actions on social media.

Methodology

The primary objective of the research work is to find out information about how much time spend on social media and how much they are aware of digital safety. For this purpose, data through a Google form and the results are analysed. Finally, this study concluded with ensurance safety utilizing AI and ML.

The questionnaire is divided into three sections. The first section consists of name of the category (student, worker, retired person and others); the time spent on social media, and activities (chat, mail, Facebook/twitter, online shopping, check weather, news, watching, and banking). The second section has the details about the social account networking sites. The third section has ten questions about the awareness about the digital

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Result and Findings

first section contains the questionnaire regarding age, category, how much time the respondents their time and frequently using medias in their daily activities.

& Category of the respondents

respondents belong to 10-20 years old; 55.6% respondents belong to 20-35 years old, and the aining 5.5% respondents belong to 35-50 years old. 83.3% of respondents are student; 11.1% of pondents are worker, and the remaining 5.6% of respondents are others category. The following 1 represents clearly that the respondents are student between 10-25 years.

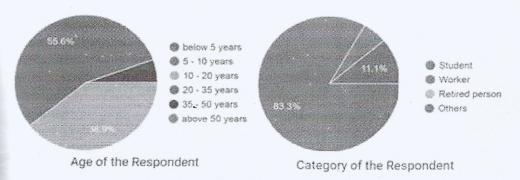
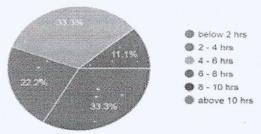


Chart 1

g time in social media

respondents (Chart 2) spent their time below 2 hrs; 22.2% respondents spent their time between 4 to 6 hrs, and 11.2% respondents spent their time between 4 to 6 hrs, and 11.2% respondents spent their time between 6 to 8 hrs.

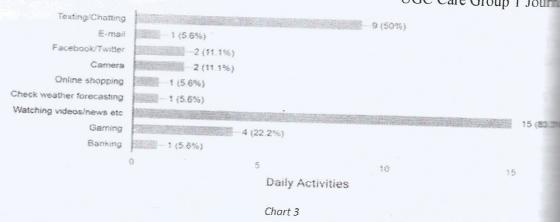


Time spend on social media

Chart 2

vities on social media

media for texting/chatting. 22.2% of respondents playing games on social media. 11.1% of spent their time in Facebook/twitter. 5.6% of respondents do banking, shopping and activities in social media.



The second section have the questionnaire about widely used social network sites. The top social network sites (Facebook, YouTube, Twitter, WhatsApp, Telegram, Linked In, Skype, Instagram, Google+, and Flickr) are taken for this study.

Social Network Sites

The following Chart 4 represents the respondents social accounts details in the social networking 50% of respondents have Facebook account and 50% of respondents don't have accounts. 78 respondents frequently use YouTube and 12% of respondents don't use it. 22% of respondents twitter account and 78% of respondents don't have accounts. 89% of respondents have Whatsaccount and only 11% of respondents don't have accounts. 83% of respondents have telegram account and 17% of respondents don't have accounts. 17% of respondents have LinkedIn account and 83% and 17% of respondents have LinkedIn account and 83% and 17% of respondents have LinkedIn account and 83% and 17% of respondents have LinkedIn account and 83% and 17% of respondents have LinkedIn account and 83% and 17% of respondents have LinkedIn account and 83% and 17% of respondents have LinkedIn account and 83% and 17% of respondents have LinkedIn account and 83% and 17% of respondents have LinkedIn account and 83% and 17% of respondents have LinkedIn account and 83% and 17% of respondents have LinkedIn account and 83% and 17% of respondents have LinkedIn account and 83% and 17% of respondents have LinkedIn account and 83% and 17% of respondents have LinkedIn account and 83% and 17% of respondents have LinkedIn account and 83% and 17% of respondents have LinkedIn account and 17% of respondents have LinkedIn acco respondents don't have accounts. 11% of respondents only use skype and 89% of respondents use it. 61% of respondents have Instagram account and 39% of respondents don't have accounts. of respondents have Google+ account and 50% of respondents don't have accounts. 5.5% respondents know about Flickr and 94.5% of respondents don't aware of it.

This study proved that the usage of WhatsApp, telegram, and YouTube are in higher. The usage Instagram, Facebook, and Google+ are in moderate. The usage of Twitter, LinkedIn, and Skype very much low. Many of them didn't aware of Flickr.

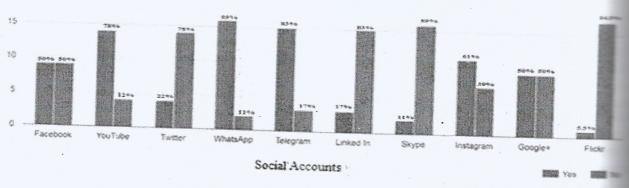


Chart 4

The third section has the questionnaire about the awareness of digital safety in social media. Charts shows the details about password. 66.7% of respondents use password/screen lock to their social median account/smart phone. 83.3% of respondents hope that they have strong password. 50% of respondents maintain different password to their different social accounts and 50% of them have the same password to all of their accounts. 55.8% of respondents have the awareness about two-factor authentication. Chart 6 displays that 50% of respondents properly logoff from their social accounts and 50% of them. are not. 94.4% of respondents don't share personal information. 72.2% of respondents customize the privacy settings like show their profile only to their contact. 77.8% of respondents update their security

leatures frequently. Chart 7 depicts that 77.8% of respondents never accept unknown friend request and 88.9% respondents did not click suspected links.

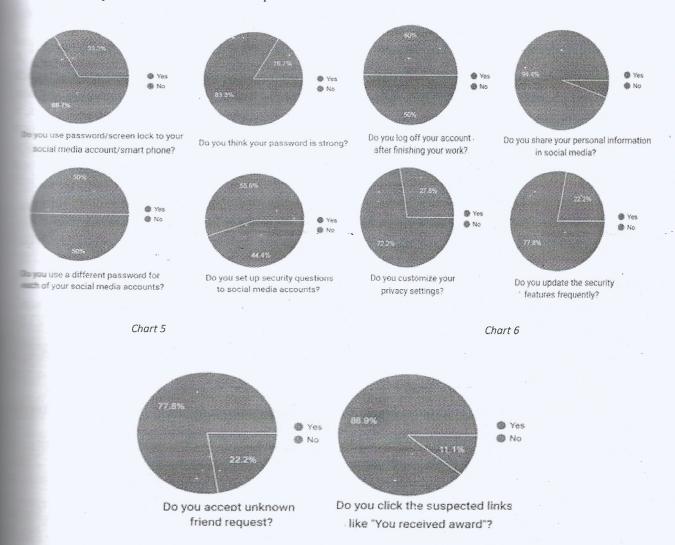


Chart 7

section proves that many of them don't logoff properly from their accounts and maintain password to various social accounts. This will lead to security issues even though they telick suspected link and unknown friend request.

ing digital safety in social media

work, clearing browsing histories, avoiding third-party applications without knowing terms, work, clearing browsing histories, avoiding third-party applications without knowing terms, and itions, keep away from fake websites, malicious links, ads, mail etc., maintaining the security settings, using strong password for social accounts, and avoiding same password to social networks. Make it a regular practice to change passwords frequently. Two-factor tication (finger print or text code on registered mobile) is suggested. Before joining any social by using invite link, make sure of the trustworthy about it.

AI influenced social media?

media bots are a type of AI tool that assists you in cyber space for each of your social media It will pop up with the content "May I help you!". User's activities such as profile, location, post etc., are tracked, filtered and analysed using natural language processing, computer Identifying images/faces in a few seconds from millions of data; content creation such as post, photo collage etc., better and faster; social media advertising to the targeted audience

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according to their behaviour, and customer support 24/7 automatically in business are some examples of how AI changed social media. The two major benefits are cost effective and a rise in profit.

Conclusion

The world is getting closer in the way of communication. Now, everyone wants to be connected share information globally. The world is moving from data, information, knowledge to insights long ago, people made an effort to collect information. Today information comes into our henormously. Social networks do not have any standards for sending/receiving the amount of Everyone simply forwards the message without knowing the trustworthiness of the message. The reaches a large audience in a short period. This will confuse or sometimes cause addiction, distraction and depression. Privacy and security are also one of the most important areas to be taken serious. This study shows that teenagers spend their time mostly watching videos, playing games, and should be comments, posts, etc. They are not aware of the security issues behind these activities. AI and ML make a promising environment on social media in the future.

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