

Understanding Students' Digital Literacy as Part of Their Personal Information Management Skills

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Abstract. In the contemporary digital age, the concept of privacy assumes heightened significance. Nevertheless, the phenomenon of disclosing personal information online has led to an increase in cybercrime cases that pose a threat to the privacy of internet users, including those who utilize social media platforms such as Instagram. The objective of this study is to ascertain the extent to which there is a correlation between digital literacy skills and the management of personal information on Instagram among the undergraduate students at Diponegoro University's School of Library Science. This study employed the simple random sampling technique to determine the sample. We collected data by distributing questionnaires using Google Forms, resulting in 170 data points. We then subjected the data to analysis using Pearson's correlation technique, the product moment. Furthermore, the correlation coefficient value was obtained as $r = 0.462$, with a significance value of <0.001 , thus satisfying the criterion of $p < 0.05$. The results indicate a significant positive correlation between digital literacy skills and the ability to manage personal information on Instagram. College students with higher digital literacy skills are more adept at managing their personal information on social media Instagram, reducing the risk of cybercrime.

Keywords: personal information management; digital library; instagram; undergraduate students

1 Introduction

Digital means enable the acquisition and sharing of information today. This provides many benefits, such as faster and easier access to knowledge, as well as instant global communication. However, despite these benefits, the ease of sharing information also presents a number of challenges, including the potential for theft and misuse of personal data. In a digital world that is closely connected to social media, individuals often share their personal information in various ways, such as posting personal photos or filling their profiles with personal details. Social media, being one of the most popular digital platforms, offers users an attractive feature that allows them to instantly share their information and moments with a wider audience. This includes information about personal life, work, location, interests, and various other personal details. The platform offers features like uploading images, videos, and status updates, and facilitates

interaction through comments and private messages. While this variety of information has social and communicative benefits, the increasing quantity of personal information in the digital environment also has the potential to open up loopholes for abuse or privacy violations. The existence of personal information on social media platforms is becoming increasingly vulnerable to various risks, such as unauthorized access, privacy violations, and potential misuse of data by irresponsible parties. This creates challenges in managing personal information security.

The phenomenon of privacy violations and theft of personal information on social media platforms has been increasing in recent years. In the first case, a woman received a call from someone posing as a friend, asking for a loan. The perpetrator tricked the victim by using a childhood nickname that only those closest to her knew. However, in the end, the victim realized that this was a fraud scheme, and it was only then that the perpetrator took advantage of the personal information the victim shared in the "Add Yours" trend on Instagram by including a childhood nickname.

In another case, a student of an Indonesian state university suffered serious impacts after unfounded allegations of sexual harassment spread widely on social media platforms. The story began with a viral upload on social media X, featuring a screenshot of a chat that contained elements of sexual harassment against a first-year student. The owner of the account initially uploaded the screenshot and then deleted it. However, the screenshot reappeared on another X account. This prompted other accounts, like Student, to purposefully disseminate personal information.

The information included the student's identification number, the address of their boarding house, and a photo of him. According to the student, this information not only had detrimental social effects but also posed a physical threat. Many other cases highlight the threats to privacy and theft of personal information in the digital age. The cases described above are just examples of the variety of situations that can occur in the online environment. They serve as a stark reminder of the urgency of protecting personal information on social media and the serious impact that can occur if such data or information falls into the hands of unscrupulous parties. Therefore, users need to always raise awareness about the risks and take steps to protect their personal information when interacting on digital platforms. The more awareness and education

about digital privacy, the better people will be able to protect themselves from these threats.

The risks described have the potential to affect anyone, particularly young adults like university students. Students are often active on social media. Data from the Association of Indonesian Internet Service Providers survey in 2023 and We Are Social & Meltwater (2023) reveals that university students are among the most active users of social media in Indonesia, demonstrating their intense engagement with these digital platforms. This increases their exposure to various risks associated with digital privacy and security on social media. As an active group in the use of social media, university students need a greater awareness of the risks and the importance of wise practices in sharing their personal information in the digital world.

Personal information is a collection of data that, when used alone or with other relevant data, can track or identify a person [1]. According to [2], personal information is information in the form of a person's personal identity and identifiers such as name, identity number, location data, and online identifiers that can be used to identify a person. Meanwhile, [3] defines personal information as any individual data that is personal, sensitive, or confidential, which you want to keep secret or prevent others from obtaining, utilizing, or disclosing to other parties.

2 Methods

This research employs quantitative methods, specifically a survey approach. The survey research approach involves delivering questionnaires or interviews to respondents to obtain information about the variables under study [4]. This study uses a survey approach to obtain information about the variables of digital literacy skills and personal information management on Instagram. From December 31 to January 7, 2024, the Diponegoro University Library Science students in the class of 2020 and 2021 distributed a questionnaire via Google Form as part of the data collection technique. This study employs two research variables: the independent variable (X), which is digital literacy skills, and the dependent variable (Y), which is the management of personal information on Instagram social media. We prepared the questionnaire by

adopting the measurement indicators of Law et al. [5] to assess a person's digital literacy skills, and indicators [6] to gauge their personal information management on social media. This study focuses on active students enrolled in the Bachelor of Library Science Study Program at Diponegoro University's Faculty of Humanities, specifically in the 2020 and 2021 batches, during the 2023/2024 academic year. We chose the population of Library Science students from the 2020 and 2021 batches because they met both criteria and shared the same teaching tools, specifically the 2020 Merdeka Curriculum. The population comprises 285 students, with each batch comprising 145 students in the class of 2021 and 140 students in the class of 2020, as detailed in Table 1

Table 1
Data on Library Science Students, Faculty of Humanities, Diponegoro University

Year (Class)	Total Students
2020	140
2021	145
Total	285

The next step is to determine the research sample. Sampling used simple random sampling techniques, and we obtained a sample size of 166. The IBM SPSS Statistics 27 program assisted in the analysis of the collected data using the Pearson Product Moment correlation technique. We conduct the Pearson Product Moment correlation test to obtain a correlation coefficient value that reveals the strength and direction of the relationship between digital literacy skills and personal information management variables, enabling us to address the research hypothesis [7].

3 Result and Discussion

Based on the results of the Pearson Product Moment correlation test, it shows that the correlation coefficient between digital literacy skills and personal information management is $r_{xy} = 0.462$ at the 5% significance level. This indicates a moderate relationship strength ($r_{xy} = 0.462$) between digital literacy skills and personal information management on Instagram. The correlation coefficient result is positive (+), indicating that there is a unidirectional relationship between the two variables.

These results indicate that the higher the students' digital literacy skills, the better their personal information management on Instagram. In other words, digital literacy skills can influence the way students manage their personal information in the context of social media such as Instagram.

Based on the results of the Pearson Product Moment correlation test, the significance value Sig. (2-tailed) is very small, namely <0.001 (<0.05). This result indicates that there is a highly statistically significant relationship between the two variables. Thus, the results of this analysis reject the null hypothesis (H_0), which states that there is no significant relationship. Instead, we accept the alternative hypothesis (H_1), confirming a significant relationship between digital literacy skills and personal information management among Diponegoro University Bachelor of Library Science students on Instagram.

The research by [8], which demonstrates a significant relationship between digital literacy skills and privacy management, is consistent with this finding. This is known based on the results of the correlation test with a significance value of 0.000 ($p < 0.05$). This finding aligns with research by [9], demonstrating that digital literacy positively impacts an individual's management of personal information on social media.

Digital literacy enables individuals to understand the privacy settings in social media applications, enhancing their ability to manage and maintain their online privacy [10]. Good digital literacy also makes a person more aware of the risks and consequences of sharing personal information openly, so they will be more alert to the potential for data misuse or personal identity theft [11]. In addition, a person with good digital literacy will be more aware of the importance of security in the digital environment, so they will have standards for setting privacy boundaries and maintaining privacy online [12, 13].

These findings provide strong confirmation of the understanding of the role of digital literacy in managing personal information in digital media. Digital literacy skills are based on an individual's interest and attitude in using digital technology to access and manage information so that they can participate and communicate effectively in a digital society [14]. This allows individuals with excellent digital literacy skills to be better able to use digital information wisely. In the context of managing privacy information on social media, digital literacy enables understanding of privacy settings,

account management, and decision-making about sharing personal information content. Digital literacy can serve as a tool that enables individuals to effectively manage their privacy on social media platforms. Users with good digital literacy are more likely to be aware of the risks and implications of sharing personal information, allowing them to take proactive steps to safeguard their privacy.

4 Conclusion

The findings showed that there is a significant relationship between digital literacy skills and personal information management among library science students on Instagram. Strong digital literacy skills in the area of technology use will enhance their ability to manage their personal information on online platforms like Instagram. Students who are skilled at using technology tend to be more familiar with the various security risks and features available. Additionally, having a strong understanding of personal data security and proficient digital communication skills can enhance students' ability to use social media platforms wisely. This is because they can establish clear guidelines for what they share, with whom, and understand the privacy implications of their online activities.

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