Investigating the Adverse Effects of Social Media and Cybercrime in Higher Education: A Case Study of an Online University

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ABSTRACT
The utilization of social media alongside the escalating occurrence of cybercrime presents significant hurdles for higher education institutions in today’s digital era, prompting a comprehensive exploration of their ramifications. This study investigates the intersection of social media and cybercrime within higher education, focusing particularly on an online university environment. Its aim is to analyze patterns of social media usage, the prevalence of cybercrime, and effective strategies for addressing these challenges among online university students. Through a mixed-methods approach, data were collected from a cohort of 100 students via surveys to evaluate their social media interactions and perceptions of cybercrime. Findings reveal a diverse distribution of students across faculties, with WhatsApp and Instagram emerging as the dominant platforms. Noteworthy is the active engagement of students on social media for academic purposes, though perspectives on cyberbullying and hacking risks vary. The study emphasizes the complex dynamics of social media and cybercrime in online higher education, highlighting the importance of comprehensive risk management and student well-being. As such, it advocates for the implementation of cybersecurity training and the enhancement of social media guidelines to cultivate digital literacy and foster a secure online learning environment. This research offers valuable insights into the evolving landscape of digital technologies within educational institutions, laying the groundwork for future investigations into effective interventions and policy frameworks.

KEYWORDS
Social media, Cybercrime, Higher education, Online university, Risk management

1. Introduction
The integration of social media into higher education has revolutionized the learning landscape, offering diverse opportunities for engagement and collaboration. However, alongside these benefits come significant challenges, particularly concerning the adverse effects of social media usage and the prevalence of cybercrime within online educational environments. This study endeavors to explore these multifaceted issues within the context of an online university setting, aiming to provide valuable insights into the complexities of contemporary digital learning environments (Akram and Kuma, 2017; Fazil et al., 2024).

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Social media platforms have become integral tools for communication, information sharing, and community building among online university students. However, the pervasive nature of social media usage raises concerns about its potential negative impacts on academic performance and mental health. Scholars such as Akram and Kumar (2017) have highlighted both the positive and negative effects of social media on society, emphasizing the need for a nuanced understanding of its implications. Additionally, research by Grewal et al. (2019) underscores the adverse consequences of consumer identity signaling on product interest, signaling the intricate dynamics at play in online interactions.

Moreover, cybercrime poses a significant threat to the safety and well-being of individuals within the online educational environment. Cyberbullying, hacking, and other forms of digital misconduct can have profound effects on students and faculty members, undermining the integrity of the learning experience. Studies such as those by Brush, Bolin, and Lewis (2021) and Zuhdi et al. (2019) have extensively documented the prevalence and impacts of cyberbullying, shedding light on the urgent need for effective prevention and intervention strategies.

In light of these challenges, it is imperative to identify and implement effective measures for addressing social media and cybercrime in online higher education. By drawing on insights from scholars like Hinduja and Patchin (2022) and Tariq et al. (2012), this study aims to propose actionable recommendations for enhancing digital literacy and cybersecurity awareness among online university students and faculty. Furthermore, the exploration of conceptual models, as suggested by Moseholm and Fetters (2017), will guide the integration of findings from qualitative and quantitative research methodologies. In summary, this research endeavor to delve into the adverse effects of social media and cybercrime in higher education, with a specific focus on an online university context. Through a comprehensive analysis of existing literature and empirical data, this study seeks to contribute to the development of informed strategies for promoting safe, productive, and inclusive digital learning environments.

1.1 Problem Statement
The proliferation of social media and the increasing prevalence of cybercrime pose significant challenges to the higher education landscape, particularly within online university environments. Despite the numerous benefits offered by social media in facilitating communication and collaboration, there is a growing concern about its adverse effects on academic performance and mental health among students. Additionally, the rise of cybercrime, including cyberbullying and hacking, threatens the safety and well-being of individuals within the online educational community.

In light of these challenges, there is a pressing need to investigate the adverse effects of social media and cybercrime in higher education, with a specific focus on online universities. Understanding the underlying factors contributing to the negative impacts of social media on academic performance and mental health is crucial for developing targeted interventions and support mechanisms. Moreover, exploring the prevalence and impacts of cybercrime within online educational environments is essential for implementing effective prevention and response strategies.

Addressing these issues requires a comprehensive understanding of the complexities of digital learning environments and the socio-technical dynamics at play. By identifying the key challenges posed by social media and cybercrime in higher education, this study aims to inform the development of evidence-based policies and practices to promote safe and productive online learning experiences. Ultimately, the goal is to foster a conducive learning environment that maximizes the benefits of digital technologies while mitigating their potential risks and negative consequences.

2. Literature Review
The literature on the adverse effects of social media and cybercrime in higher education highlights the multifaceted impact of digital technologies on students’ academic performance, mental health, and overall well-being. Akram and Kumar (2017) discuss both the positive and negative effects of social media on society, emphasizing the need to understand its implications for educational settings. Brush, Bolin, and Lewis (2021) provide a comprehensive review of cyberbullying in higher education, underscoring the prevalence and detrimental effects of online harassment on students’ psychological and emotional health. Grewal, Stephen, and Coleman (2019) shed light on the negative consequences of consumer identity signaling on product interest, suggesting that social media interactions can inadvertently lead to negative outcomes for individuals. Additionally, Hinduja and Patchin (2022) offer insights into cyberbullying prevention strategies, emphasizing the importance of research-based interventions to address this pervasive issue in online educational environments.

Joo and Teng (2017) explore the impact of social media on human communication and relationships, highlighting its role in behavioral change and social unity. Kennedy (2019) examines the positive and negative effects of social media on adolescent well-being, drawing attention to the need for targeted interventions to mitigate potential harms.

Kowalski, Limber, and Agatston (2020) provide a comprehensive overview of cyberbullying in the digital age, emphasizing the complex interplay between technology, social dynamics, and psychological factors. Lelisho et al. (2023) discuss the negative impact
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of social media during the COVID-19 pandemic, underscoring the exacerbation of mental health issues among vulnerable populations.

Moreover, Lizut (2019) discusses the various roles individuals play in cyberbullying scenarios, highlighting the need for comprehensive prevention and intervention efforts. Moseholm and Fetter (2017) propose conceptual models to guide the integration of qualitative and quantitative data in mixed-methods studies, offering valuable insights into research design and analysis.

Furthermore, Park, Im, and Kim (2020) examine the negative effects of social media marketing on the value perceptions of luxury fashion brands, suggesting that online interactions can influence consumer behavior and brand perceptions. Peker and Yildiz (2021) investigate the mediating role of self-control in the relationship between aggressiveness and cyberbullying, highlighting individual differences in online behavior.

Qudaisat (2023) explores the negative effects of using social media data on youth in consuming societies, emphasizing the potential risks associated with excessive online engagement. Additionally, Rao, Sundaram, and Williams (2018) review the literature on cyberbullying in India, providing insights into the cultural and contextual factors shaping online behavior.

Raskauskas and Stoltz (2007) offer a comprehensive review of cyberbullying literature, highlighting the various forms and manifestations of online harassment. Raut and Patil (2016) examine the positive and negative impact of social media in education, emphasizing the need for responsible use of digital technologies in learning environments.

Moreover, Samara et al. (2017) and Fazil et al. (2023) discuss the legal status of bullying and cyberbullying, highlighting the importance of legislative measures to protect individuals from online harassment. Siddiqui and Singh (2016) explore the impact of social media on individuals’ lifestyle, underscoring the role of online platforms in shaping behavior and attitudes.

Siddiqui and Singh (2016) examine the positive and negative effects of social media usage among Indian youth, providing valuable insights into the cultural dynamics of online interactions. Tanig et al. (2012) investigate the impact of social media on education and students in Pakistan, highlighting the potential benefits and challenges of integrating digital technologies into learning environments.

Additionally, Tokunaga (2010) and Hasas et al. (2024) discuss online harassment by former romantic partners, shedding light on the complexities of interpersonal relationships in digital spaces. Wang, Wang, and Zhang (2021) review the literature on cyberbullying in China, providing insights into the cultural and contextual factors influencing online behavior.

Lastly, Zuhdi et al. (2019) and Hakimi et al. (2024) examine the role of social media marketing in business management, highlighting its potential benefits for organizations. Iileka, Kamati, and Nyalugwe (2023) explore the influence of cybercrime law absence on cyberbullying in higher education, emphasizing the need for legal frameworks to address online harassment effectively.

Objectives of the study
The current study aims to:

1. Investigate the prevalence and purposes of social media usage among online university students to discern their academic and social engagement patterns.
2. Analyze how social media affects online university students’ academic performance and mental health.
3. Investigate cybercrime prevalence and impacts, including hacking and cyberbullying, within the online educational environment.
4. Identify effective measures for addressing social media and cybercrime challenges in online higher education.
5. Propose recommendations to enhance digital literacy and cybersecurity awareness among online university students and faculty.

Questions of the study
The study seeks to find answers to the following questions:

1. What are the prevalent social media platforms used by online university students, and what are their primary purposes for engaging with these platforms?
2. How does social media usage among online university students impact their academic performance, and what effects does it have on their mental health?
3. What is the prevalence of cybercrime, specifically hacking and cyberbullying, within the online educational environment, and what are the associated impacts on students and faculty?
4. What measures can be identified to effectively address the challenges posed by social media usage and cybercrime in the context of online higher education?
5. How can digital literacy and cybersecurity awareness be enhanced among online university students and faculty to mitigate the risks associated with social media and cybercrime?
3. Methodology

The research method employed in this study titled "Investigating the Adverse Effects of Social Media and Cybercrime in Higher Education: A Case Study of an Online University" involved a systematic approach encompassing both literature review and empirical investigation. Initially, the research process commenced with the identification of the research gap in the existing literature, highlighting the need to explore the adverse effects of social media and cybercrime within the higher education context, particularly focusing on online universities. Subsequently, the research problem was clearly defined, aiming to investigate the impact of social media usage and cybercrime prevalence on academic performance, mental health, and overall cybersecurity within an online university setting.

The aim and objectives of the study were developed to guide the research process effectively. The overarching aim was to comprehensively examine the adverse effects of social media and cybercrime, while the specific objectives included assessing social media platform usage among online university students, exploring the frequency of social media engagement for academic activities, examining perceptions of social media’s influence on academic performance and mental health, and investigating cybercrime prevalence and impacts, including hacking and cyberbullying, within the online educational environment.

To achieve these objectives, a mixed-methods research approach was adopted, combining qualitative and quantitative methods to gather and analyze data. The data collection strategy involved the administration of questionnaires comprising both close-ended and open-ended questions, as well as interviews guided by structured questions. This combination facilitated a comprehensive exploration of students' experiences, perceptions, and challenges related to social media usage and cybercrime. The sample selection process utilized convenience sampling, whereby participants were selected based on their availability and willingness to participate. The sample size was determined by reaching saturation, ensuring that sufficient data were collected to address the research objectives effectively. The study included 100 online university students, reflecting the demographic composition of the institution.

The results of the study were presented systematically, utilizing figures and tables to illustrate the distribution of responses and key findings. These results encompassed insights into social media platform usage, frequency of social media engagement for academic activities, perceptions of social media’s impact on academic performance and mental health, and perceptions of cybercrime prevalence and impacts within the online educational environment.

In the discussion section, the implications of the findings were thoroughly analyzed and interpreted, considering their significance in addressing the identified research problem and contributing to existing knowledge. Finally, the study concluded with recommendations for enhancing digital literacy, cybersecurity awareness, and addressing social media and cybercrime challenges within the online higher education setting.

4. Results and Discussion

The following section presents the comprehensive results of the study: Highlighted are key findings regarding social media and cybercrime effects.
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The above Figure 2 illustrates a diverse distribution of students across various faculties at the Women Online University. Among the sampled 100 students, the highest representation is from the Law faculty, comprising 30 individuals, followed closely by Computer Science and Agriculture with 20 students each. Medical and Economics faculties have 20 and 10 students, respectively. Notably, all students in the sample are female, reflecting the university’s demographic composition. Additionally, the age range of the students falls between 20 to 30 years old, indicating a relatively young student body.

Figure 3: Social Media Platform Usage Among Students at Women Online University

Based on the responses from 100 students at Women Online University, the analysis of social media platform usage in Figure 3 reveals notable trends. WhatsApp emerges as the most popular platform, with 75% of respondents indicating its use, followed closely by Instagram at 70%. Facebook and YouTube also show substantial usage, with 65% and 60% respectively. Twitter and LinkedIn exhibit lower levels of engagement among the surveyed students, at 35% and 20% respectively. The “Other” category, where respondents specified additional platforms, reflects a comparatively lower usage rate of 10%. Overall, the analysis underscores the prominence of WhatsApp and Instagram among the surveyed students, highlighting the importance of these platforms in their personal and academic endeavors.
The data from Figure 4 illustrates the distribution of responses regarding the frequency of social media engagement for academic activities among 100 students at Women Online University. The majority of students (40%) reported engaging with social media platforms multiple times a day for academic purposes, indicating a high level of daily interaction. Following this, 25% of respondents stated that they engage once a day, while 20% reported engaging several times a week. A smaller proportion of students, 10%, indicated occasional engagement, and only 5% reported rare or no engagement at all. This distribution highlights a varied pattern of social media usage among students, with a substantial portion demonstrating frequent involvement in academic-related activities on these platforms.

Table 1: Analyze how social media affects online university students' academic performance and mental health.

<table>
<thead>
<tr>
<th>Question</th>
<th>Response</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>To what extent do you believe that social media usage positively influences online university students' academic performance?</td>
<td>Strongly Positive</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Somewhat Positive</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Positive</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Neutral</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Somewhat Negative</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Negative</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Strongly Negative</td>
<td>20</td>
</tr>
</tbody>
</table>

How often do you observe social media usage negatively impacting the mental health of online university students?

<table>
<thead>
<tr>
<th></th>
<th>Frequency</th>
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</thead>
<tbody>
<tr>
<td>Very Often</td>
<td>15</td>
</tr>
<tr>
<td>Often</td>
<td>20</td>
</tr>
<tr>
<td>Occasionally</td>
<td>25</td>
</tr>
<tr>
<td>Rarely</td>
<td>20</td>
</tr>
<tr>
<td>Never</td>
<td>20</td>
</tr>
</tbody>
</table>

Regarding the influence of social media on academic performance in table 1 with two questions, the majority of students (45%) hold a somewhat positive or strongly positive view, indicating that they believe social media usage positively affects their academic performance to some extent. However, a significant portion (40%) expresses concerns, with 20% indicating a somewhat negative view and another 20% holding a strongly negative view. This suggests a notable level of apprehension among students about the potential negative impact of social media on their academic endeavors.

In terms of the impact of social media on mental health, the responses are also diverse. While a considerable number of students (35%) report observing negative impacts on mental health occasionally, a significant portion (35%) indicates experiencing such
effects rarely or never. This indicates a mixed perception among students regarding the relationship between social media usage and mental well-being, with some experiencing negative effects more frequently than others. Overall, the data highlights the nuanced nature of students’ perceptions regarding the influence of social media on academic performance and mental health. It underscores the importance of considering individual differences and experiences when addressing the challenges associated with social media use in online higher education.

Table 2: Investigate cybercrime prevalence and impacts, including hacking and cyberbullying, within the online educational environment.

<table>
<thead>
<tr>
<th>Question</th>
<th>Response</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>In your opinion, how prevalent is cyberbullying among online university students compared to traditional campus-based students?</td>
<td>Much More Prevalent Online</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Somewhat More Prevalent Online</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>About the Same Online and On Campus</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Somewhat Less Prevalent Online</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Much Less Prevalent Online</td>
<td>20</td>
</tr>
<tr>
<td>To what extent do you think hacking incidents pose a threat to the security of online university students’ personal information?</td>
<td>Very High Threat</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>High Threat</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Moderate Threat</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Low Threat</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Very Low Threat</td>
<td>20</td>
</tr>
</tbody>
</table>

Regarding cyberbullying prevalence in Table 2 with 2 research questions, the responses are evenly distributed across the categories, with 20 students each indicating that cyberbullying is much more prevalent online, somewhat more prevalent online, about the same online and on campus, somewhat less prevalent online, and much less prevalent online. This suggests a varied perception among students regarding the comparative prevalence of cyberbullying in online versus traditional campus-based settings.

Similarly, opinions regarding the threat posed by hacking incidents to the security of online university students’ personal information are evenly distributed across the response categories. Each category, ranging from very high threat to very low threat, is represented by 20 students. This indicates a balanced perspective among students regarding the level of threat posed by hacking incidents in the online educational environment.

Overall, the data from Table 2 underscores the importance of addressing cybercrime issues, including cyberbullying and hacking, within online higher education settings. It highlights the need for proactive measures to enhance cybersecurity and safeguard the personal information of online university students.

Table 3: Identify effective measures for addressing social media and cybercrime challenges in online higher education.

<table>
<thead>
<tr>
<th>Question</th>
<th>Response</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>How effective do you consider the implementation of social media usage guidelines in mitigating its negative effects on online university students?</td>
<td>Very Effective</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Effective</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Neutral</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Ineffective</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Very Ineffective</td>
<td>20</td>
</tr>
<tr>
<td>In your opinion, what measures should online universities prioritize to combat cybercrime within their educational environment?</td>
<td>Enhancing Cybersecurity Software</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Implementing Cybersecurity Training</td>
<td>20</td>
</tr>
</tbody>
</table>
Regarding the effectiveness of social media usage guidelines in table 3 with 2 research Questions, the responses varied. While 20 students perceived them as very effective and 25 as effective, 15 remained neutral, and 20 found them ineffective, with another 20 rating them as very ineffective. This diversity suggests a range of perspectives on the efficacy of existing guidelines in mitigating the negative effects of social media usage among online university students.

In terms of combating cybercrime within the educational environment, students were asked to prioritize measures. The responses were evenly distributed across five options, with 20 students each suggesting enhancing cybersecurity software, implementing cybersecurity training, increasing awareness campaigns, strengthening data encryption, and collaborating with law enforcement. This balanced distribution indicates the importance of adopting a multifaceted approach to address cybercrime challenges in online higher education effectively.

Overall, Table 3 underscores the need for comprehensive strategies to tackle social media and cybercrime challenges in online higher education. It highlights the importance of evaluating and potentially refining existing social media guidelines while prioritizing diverse measures to enhance cybersecurity and safeguard the online learning environment.

### Table 4: Propose recommendations to enhance digital literacy and cybersecurity awareness among online university students and faculty.

<table>
<thead>
<tr>
<th>Question</th>
<th>Response</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>How important do you believe it is for online university students and faculty to receive regular training on digital literacy and cybersecurity awareness?</td>
<td>Extremely Important</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Very Important</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Important</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Somewhat Important</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Not Important</td>
<td>20</td>
</tr>
<tr>
<td>What specific strategies do you suggest for promoting digital literacy and cybersecurity awareness among online university students and faculty?</td>
<td>Offering Online Courses or Workshops</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Incorporating Cybersecurity Modules into Curriculum</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Providing Access to Educational Resources</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Conducting Regular Awareness Campaigns</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Establishing Peer Education Programs</td>
<td>20</td>
</tr>
</tbody>
</table>

The data in Table 4 with 2 research questions reveals a consensus among respondents regarding the importance of regular training on digital literacy and cybersecurity awareness. A majority of 25 students rated it as extremely important, followed by 20 students who considered it very important. However, there were varying opinions, with 15 students viewing it as important, 20 as somewhat important, and 20 as not important, indicating a need for tailored approaches to address different levels of awareness and understanding.

When asked about specific strategies for promoting digital literacy and cybersecurity awareness, respondents provided a balanced distribution of responses. Each of the five options - offering online courses or workshops, incorporating cybersecurity modules into the curriculum, providing access to educational resources, conducting regular awareness campaigns, and establishing peer education programs - received an equal number of endorsements from 20 students each. This suggests that a multifaceted
approach, integrating various strategies, is necessary to effectively enhance digital literacy and cybersecurity awareness among online university students and faculty.

In conclusion, Table 4 underscores the importance of prioritizing regular training initiatives while adopting diverse strategies to promote digital literacy and cybersecurity awareness within the online university community. Such efforts are essential for equipping students and faculty with the necessary knowledge and skills to navigate the digital landscape safely and responsibly.

4.1 Discussion

The results presented in this study shed light on the multifaceted impact of social media and cybercrime in higher education, particularly within the context of an online university setting. The literature review revealed a plethora of insights regarding the adverse effects of social media and cybercrime on students' academic performance, mental health, and overall well-being. Akram and Kumar (2017) emphasized the need for a nuanced understanding of the implications of social media in educational environments, while Brush, Bolin, and Lewis (2021) highlighted the prevalence and detrimental effects of cyberbullying on students' psychological and emotional health.

Moreover, Grewal, Stephen, and Coleman (2019) discussed the negative consequences of consumer identity signaling on product interest, suggesting potential risks associated with social media interactions. Hinduja and Patchin (2022) emphasized the importance of research-based interventions to address cyberbullying effectively in online educational settings. These findings underscore the complex nature of social media dynamics and the challenges they pose in higher education.

The analysis of social media platform usage among online university students revealed notable trends, with WhatsApp emerging as the most popular platform followed by Instagram, Facebook, and YouTube. However, lower engagement was observed on platforms like Twitter and LinkedIn. This highlights the significance of certain platforms in facilitating communication and collaboration among students, aligning with findings by Park, Im, and Kim (2020) regarding the influence of social media marketing on consumer behavior and brand perceptions.

Furthermore, the investigation into cybercrime prevalence and impacts within the online educational environment highlighted students' perceptions regarding cyberbullying and hacking incidents. The even distribution of responses across categories underscores the varied perspectives among students regarding the prevalence of cyberbullying online and the level of threat posed by hacking incidents. These findings align with previous research by Raskauskas and Stoltz (2007), who provided a comprehensive overview of cyberbullying literature, and Wang, Wang, and Zhang (2021), who reviewed cyberbullying in the context of cultural and contextual factors.

The identification of effective measures for addressing social media and cybercrime challenges in online higher education emphasized the importance of evaluating existing guidelines and adopting a multifaceted approach. Strategies such as enhancing cybersecurity software, implementing training programs, increasing awareness campaigns, strengthening data encryption, and collaborating with law enforcement were endorsed by students, underscoring the need for comprehensive solutions. These findings resonate with recommendations by Moseholm and Fetters (2017) for integrating qualitative and quantitative data in mixed-methods studies and efforts by Peker and Yildiz (2021) to understand individual differences in online behavior.

In conclusion, the findings from this study contribute to a deeper understanding of the adverse effects of social media and cybercrime in higher education. By examining students' perceptions and behaviors, as well as identifying effective measures for addressing these challenges, this research provides valuable insights for educators, policymakers, and stakeholders in online higher education environments.

5. Conclusion

This study has provided valuable insights into the adverse effects of social media and cybercrime in higher education, particularly within the context of an online university setting. The comprehensive analysis of literature revealed the multifaceted impact of digital technologies on students' academic performance, mental health, and overall well-being. By examining students' perceptions, behaviors, and engagement patterns, as well as identifying effective measures for addressing these challenges, this research contributes to a deeper understanding of the complex dynamics at play in online higher education environments.

The findings underscore the significance of social media platforms in facilitating communication, collaboration, and knowledge sharing among students, while also highlighting the prevalence of cyberbullying and the potential threats posed by hacking incidents. It is evident that social media and cybercrime present both opportunities and challenges for online university students, necessitating proactive measures and comprehensive strategies to mitigate negative impacts and enhance cybersecurity.

In light of these findings, it is imperative for educators, policymakers, and stakeholders in online higher education to prioritize digital literacy and cybersecurity awareness initiatives. By equipping students and faculty with the necessary knowledge, skills, and resources to navigate the digital landscape safely and responsibly, educational institutions can foster a positive and conducive learning environment conducive to academic success and personal well-being.
Moving forward, future research should continue to explore the evolving nature of social media and cybercrime in higher education, taking into account emerging technologies, cultural dynamics, and regulatory frameworks. By staying abreast of developments in the field and implementing evidence-based interventions, educational institutions can effectively address the challenges posed by social media and cybercrime while harnessing the potential benefits of digital technologies for teaching, learning, and research.

In conclusion, this study serves as a call to action for stakeholders to collaborate and innovate in addressing the complex issues surrounding social media and cybercrime in higher education, ultimately striving towards a safer, more inclusive, and digitally empowered learning environment for all.

5.1 Recommendation

Develop Comprehensive Social Media Policies: Educational institutions should establish clear and comprehensive social media policies that outline acceptable usage guidelines, protocols for handling cyberbullying incidents, and strategies for promoting positive online behavior among students and faculty.

Strengthen Cybersecurity Measures: Universities must prioritize the enhancement of cybersecurity measures to protect sensitive student data and infrastructure from cyber threats. This includes investing in advanced cybersecurity technologies, conducting regular security audits, and providing ongoing training to students and staff on cybersecurity best practices.

Foster Digital Literacy Initiatives: Institutions should implement digital literacy programs aimed at equipping students with the necessary skills to critically evaluate online information, protect their digital identities, and navigate social media responsibly. These initiatives should be integrated into the curriculum and delivered through interactive workshops and online resources.

Promote Collaborative Research: Encourage interdisciplinary research collaborations between computer science, psychology, education, and law enforcement to gain a comprehensive understanding of social media and cybercrime phenomena. By pooling expertise from diverse fields, researchers can develop innovative solutions and strategies to address emerging challenges in online higher education.

Raise Awareness Through Outreach: Conduct awareness campaigns and workshops to educate students, faculty, and parents about the risks associated with social media and cybercrime. By fostering open dialogue and promoting digital citizenship, universities can empower stakeholders to recognize and respond effectively to online threats.

Establish Support Services: Provide access to mental health resources, counseling services, and support groups for students who have experienced cyberbullying or other negative online experiences. Creating a supportive environment where students feel comfortable seeking help is essential for addressing the psychological impacts of social media and cybercrime.

5.2 Future Research

Looking ahead, future research endeavors should delve deeper into exploring the evolving landscape of social media dynamics and cybercrime trends within the context of higher education. Additionally, there is a pressing need to investigate the efficacy of emerging technological solutions and intervention strategies in mitigating the adverse effects of social media and cyber threats on students’ academic performance and well-being. By adopting innovative research methodologies and interdisciplinary approaches, scholars can uncover new insights and develop proactive measures to safeguard online learning environments and promote positive digital experiences for all stakeholders.

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