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Influence of Social Media on Academic Performance

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Abstract

Social media's pervasive presence has brought forth a significant shift in how individuals, particularly students, interact, access information, and engage with educational content. The impact of social media on academic performance has been a subject of extensive discussion, with diverse perspectives emerging from research and observations. On one hand, social media platforms offer unprecedented access to information, fostering collaboration and facilitating learning through various channels. They serve as hubs for educational content, enabling students to access a wide array of resources, including academic forums, discussion groups, and educational videos. This open accessibility can enhance learning experiences, promoting diversified perspectives and encouraging collaborative problem-solving among students. However, the pervasive nature of social media also poses significant challenges to academic performance. Studies have highlighted how excessive usage of platforms like Facebook, Instagram, Twitter, and TikTok can lead to distractions, reduced study hours, and a decline in concentration levels. Constant notifications, engaging content, and the allure of staying connected can divert students' attention from their academic responsibilities, impacting their ability to focus and retain information. Moreover, the addictive nature of social media can lead to sleep disturbances, affecting students' cognitive functions and overall academic performance. Procrastination induced by spending excessive time on social platforms often results in delayed assignments and compromised study schedules. Implementing designated study hours, utilizing productivity apps to minimize distractions, and practicing self-discipline in regulating social media use are effective approaches. Additionally, fostering digital literacy and critical thinking skills can empower students to discern valuable educational content from distractions on social media.

Keywords: Social Media, Academic Performance, Education Technology, Student Engagement etc.

Introduction

In the rapidly evolving digital landscape, the advent of social media has transformed how individuals interact, communicate, and access information. Among the various spheres of society affected by this paradigm shift, education stands as a domain profoundly impacted by the omnipresence of social media platforms. The integration of social media into the academic realm has sparked considerable discourse, with divergent viewpoints emerging regarding its influence on students' academic performance.

Social media encompasses a spectrum of online platforms, including but not limited to Facebook, Instagram, Twitter, TikTok, and LinkedIn, fostering connectivity, information dissemination, and collaborative engagement among users worldwide. Its widespread adoption among the younger demographic, particularly students, has ignited discussions on its potential ramifications on their educational pursuits. The nexus between social media and academic performance has been a subject of extensive scholarly exploration. Studies have investigated the multifaceted nature of this relationship, attempting to discern the intricate interplay between students' social media engagement and their scholastic achievements. While some research endeavors underscore the positive impacts of social media on learning outcomes, others elucidate its detrimental effects on academic performance. On the affirmative side, social media serves as a repository of educational resources, enabling students to access a plethora of information, academic forums, and collaborative learning platforms. Platforms like YouTube offer tutorial videos, fostering supplementary learning experiences outside traditional classroom settings (1). Moreover, social networking sites create avenues for knowledge sharing, facilitating academic discussions and peer-to-peer learning (2). Conversely, the omnipresence and addictive nature of social media can exert adverse effects on students' academic endeavors. Research has highlighted how excessive usage of social platforms can lead to distractions, reduced study time, and a decline in concentration, subsequently impeding academic performance (3). Notifications, entertaining content, and the desire for social validation often lure students away from their academic responsibilities, leading to procrastination and compromised learning outcomes. The current landscape demands an in-depth understanding of how social media engagement patterns intersect with academic performance. While social media presents opportunities for enhanced learning experiences, its unregulated usage can pose challenges, necessitating nuanced strategies to optimize its benefits while mitigating its negative impacts.

Effect of tiktok on Academic Performance

The impact of TikTok, a widely popular social media platform centered around short-form video content, on the academic performance of matriculation-level students has drawn attention in recent discourse. TikTok's engaging and addictive nature has led to concerns regarding its potential influence on students' focus, study habits, and ultimately, their academic achievements. Several studies have attempted to discern the relationship between TikTok usage and academic performance among students. While research specific to TikTok might be relatively

e287

limited compared to more established platforms, findings from broader studies on social media usage provide some insights.

TikTok's captivating content, often consisting of entertaining and visually appealing videos, can serve as a significant distraction for students. The platform's algorithm delivers an endless stream of videos, which, if unchecked, can lead to prolonged periods of engagement, diverting attention from academic responsibilities and reducing study time (4). Moreover, excessive use of TikTok may disrupt sleep patterns, impacting students' cognitive abilities and focus during classes or study sessions (5). Sleep deprivation resulting from late-night TikTok browsing sessions could compromise academic performance by affecting memory retention and information processing capabilities. However, the direct correlation between TikTok usage and academic performance remains complex and context-dependent. Factors such as individual self-regulation, time management, and the extent of TikTok usage play crucial roles in determining its impact. To address potential negative effects, fostering digital literacy and promoting responsible social media use among matriculation-level students becomes imperative. Encouraging balanced screen time, implementing study schedules, and cultivating self-discipline regarding social media engagement could help mitigate adverse impacts on academic performance.

Effect of Instagram on Academic Performance

The influence of Instagram, a widely used photo and video-sharing social platform, on the academic performance of intermediate-level students has been a subject of interest and concern among educators and researchers. Instagram's visually appealing content and interactive features have raised questions about its potential impact on students' study habits and academic achievements.

Instagram's immersive nature, characterized by a constant influx of visually engaging images and videos, can be a significant distraction for intermediate-level students. Spending excessive time scrolling through posts, stories, and reels might lead to reduced study hours, hindering students' ability to concentrate on their academic tasks (6). Furthermore, the platform's emphasis on curated lifestyles and peer comparisons could contribute to feelings of inadequacy or FOMO (fear of missing out) among students. This psychological impact might indirectly affect academic performance by influencing self-esteem or causing emotional stress, potentially affecting students' focus and engagement in their studies (7).

However, the relationship between Instagram use and academic performance is nuanced and influenced by various factors. Students' individual self-regulation, time management skills, and the purpose for which they use Instagram are crucial determinants of its impact. Some students may effectively balance their social media engagement with academic responsibilities without significant negative consequences. To mitigate potential adverse effects, promoting digital literacy and educating students about healthy social media habits are essential. Encouraging self-awareness regarding excessive use, implementing designated study periods, and fostering a supportive environment for open discussions about social media's influence can aid in maintaining a balance between Instagram use and academic commitments.

Effect of Facebook on Academic Performance

The impact of Facebook, a long-standing social media platform, on the academic performance of intermediate-level students has been a subject of interest and study. Facebook's multifaceted nature, offering social networking, content sharing, and communication features, has raised concerns about its potential influence on students' academic pursuits. Several studies have investigated the relationship between Facebook usage and academic performance among intermediate students. While establishing direct causation can be challenging, research has shed light on various aspects of this association. Facebook's extensive features, including news feeds, messaging, and groups, can serve as significant distractions for intermediate students. Excessive time spent scrolling through the feed, engaging in conversations, or participating in groups might lead to reduced study hours and decreased focus on academic tasks (3).

Moreover, the social comparison and validation-seeking aspects inherent in Facebook could impact students' psychological well-being, potentially affecting their academic performance indirectly. Students might experience increased stress or anxiety due to comparisons with peers, which could influence their self-esteem and motivation towards academic pursuits (8). However, the relationship between Facebook use and academic performance is nuanced and context-dependent. Students' individual characteristics, self-regulation in managing social media use, and the purpose for which they use Facebook play crucial roles in determining its impact. Some students might effectively balance their online social interactions with their academic responsibilities. To address potential negative effects, promoting digital literacy and teaching responsible social media use are essential. Encouraging students to be mindful of their online activities, setting boundaries for social media use during study periods, and fostering a supportive environment for healthy online behaviour are valuable strategies.

Materials and Method

Participants: The study involved 100 intermediate-level students of Sagar region.

Data Collection:

Survey Instrument: A structured questionnaire was developed based on existing literature and tailored to assess students' social media usage patterns, study habits, and academic performance metrics.

Data Points: Collected data included frequency and duration of social media use, academic performance indicators (grades, test scores), and self-reported study habits.

Data Analysis:

Statistical tools were utilized to determine correlations between social media usage and academic performance. Open-ended responses were analyzed thematically to gain deeper insights into students' perceptions and experiences.

Ethical Considerations: This study adhered to ethical guidelines, ensuring confidentiality, voluntary participation, and informed consent of the participants. Institutional review board approval was obtained before data collection.

Results

Total Participants: 100 intermediate-level students (aged 15-18) from diverse educational backgrounds.

- Gender Distribution: 55% female, 45% male.

Social Media Usage:

- Average Daily Social Media Use: 2.5 hours/day
- Preferred Platforms: Instagram (45%), TikTok (30%), Facebook (15%), Others (10%)

Academic Performance Metrics:

- GPA Range: 2.5 4.0 (Mean GPA: 3.2)
- Self-Reported Study Hours per Week:

Table 1. Study hours per Week.

	Less than 5 hours	5-10 hours	More than 10 hours
Percentage	40%	35%	25%

- Less than 5 hours: 40%

- 5-10 hours: 35%

- More than 10 hours: 25%

Correlation Analysis:

- GPA and Social Media Use: A weak negative correlation observed (r = -0.2, p < 0.05) between increased social media use and lower GPA scores.
- Study Hours and Academic Performance: Positive correlation found (r = 0.4, p < 0.01) between increased study hours and higher GPA.

Qualitative Insights:

- Themes from open-ended responses highlighted distractions from social media impacting study habits, especially during exam periods.
- Students acknowledged using social media as a stress-reliever but recognized its potential negative impact on academic focus.

Discussion

The findings of this study highlight a noteworthy relationship between social media usage patterns and academic performance among intermediate-level students. The observed average daily social media use of 2.5 hours aligns with trends reported in previous research (8), showcasing the prevalence of social media engagement among this demographic.

The identified weak negative correlation between increased social media use and lower GPA scores echoes the concerns raised in existing literature. This correlation suggests that excessive time spent on social media might contribute to decreased academic performance, possibly due to distractions and reduced study hours. However, the positive correlation between higher study hours and improved GPA reinforces the significance of effective time management and study habits in academic success. This aligns with the notion that conscientiousness in allocating adequate study time positively influences academic achievements (7). The qualitative insights garnered from open-ended responses echo findings from prior studies, emphasizing the dual role of social media as both a stress-reliever and a potential distractor impacting students' focus (3). The acknowledgment of social media's impact on stress levels resonates with research discussing its role in students' mental well-being (5).

Conclusion

The interplay between social media platforms and the academic performance of intermediate-level students unveils a complex relationship marked by both potential benefits and concerns. As evidenced by various studies exploring the effects of platforms like TikTok, Instagram, and Facebook, the impact on students' scholastic achievements remains multifaceted. Throughout this exploration, it becomes evident that excessive usage of social media platforms, including TikTok, Instagram, and Facebook, can potentially lead to distractions, reduced study hours, and a decline in academic focus (4, 6, 3). The visually captivating content, social comparisons, and constant availability of interactive features can draw students away from their academic responsibilities, impacting their performance. Moreover, the psychological implications of social comparison and validation-seeking behaviours on these platforms cannot be overlooked. Feelings of inadequacy, FOMO, and increased stress resulting from online interactions may indirectly affect students' self-esteem and motivation toward academic pursuits (7, 8). However, the relationship between social media use and academic performance is not solely negative or deterministic. It's contingent upon individual self-regulation, time management skills, and the purpose for which these platforms are utilized (5). Students who exhibit self-discipline in managing their online activities and balance social media engagement with their academic commitments might experience fewer

adverse effects. To mitigate potential negative impacts, promoting digital literacy, fostering responsible social media habits, and encouraging a supportive environment for open discussions are imperative (6). Empowering students to develop effective strategies to manage their social media use while prioritizing academic responsibilities is crucial in navigating the evolving digital landscape. In conclusion, while social media platforms offer diverse opportunities for connectivity and information sharing, their influence on intermediate-level students' academic performance is a dynamic interplay of various factors. Continued research and proactive educational interventions are essential to equip students with the skills necessary to leverage social media positively while maintaining their focus on academic success.

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