Social Media Addiction Report:

Introduction:

This analysis examines the complex effects of social media on students, focusing on academic performance, mental health, sleep patterns, and relationship dynamics. Drawing on survey data from students across various countries and academic levels, the goal is to uncover patterns, correlations, and potential risks associated with social media usage.

Dataset Overview:

The dataset is based on survey responses from students and includes details such as age, gender, academic level, and country. It also contains quantitative variables like average daily social media usage, sleep hours, mental health scores, frequency of social media conflicts, and a calculated addiction score. Most students fall within the 19–22 age range. The dataset is clean and well-structured, with no missing or duplicate entries, making it ready for reliable analysis.

Analytical Focus:

This analysis addresses five key areas to provide a well-rounded understanding of social media's impact on student life: the effect on academic performance, usage patterns across platforms, the relationship with sleep and mental health, the role of romantic and social relationships, and how demographic factors influence behavior. These dimensions offer a full view of how social media habits shape students' daily lives.

Demographic Insights:

The majority of students surveyed are between 19 and 22 years old, and most are enrolled in undergraduate or graduate programs. Responses come from a broad range of countries, with India, the USA, and Canada showing the highest representation. Gender is relatively balanced, allowing for meaningful comparisons across all categories of analysis.

Social Media Usage Patterns:

Students' social media usage varies from 1 to 9 hours per day, with most using it between 4 and 6 hours. A smaller group uses it minimally (1–2 hours), while the most addicted students exceed 7 hours. Instagram stands out as the most used platform, followed by TikTok and Facebook. The preference for visual and entertainment-heavy

platforms highlights how digital content consumption is centered around short-form and social interaction features.

Academic Impact of Social Media:

Students who report that social media negatively affects their academic performance tend to have much higher addiction scores, often ranging from 7 to 8. In contrast, those who say their academics remain unaffected have significantly lower scores, around 4 to 5. A clear pattern also emerges with usage hours: more time spent on social media corresponds to poorer academic results. Platform-specific trends show that Instagram, TikTok, and Facebook users are more likely to report academic issues, while students using LinkedIn, VKontakte, or LINE are generally unaffected.

Social Media's Influence on Sleep and Mental Health:

A strong link exists between excessive social media use and reduced sleep. Students who use social media more tend to sleep fewer hours and report lower mental health scores. Those involved in frequent conflicts over social media also sleep less and feel mentally worse. In contrast, students with balanced usage habits and fewer conflicts tend to sleep more and have better mental well-being. Addiction scores rise with usage time and conflict frequency, leading to declining mental health. Each platform plays a different role—Snapchat, WhatsApp, and TikTok are strongly linked to low sleep and mental health, while LinkedIn and LINE users report better well-being.

Relationship Dynamics and Social Media:

Relationship status also influences social media behavior. Students in 'Complicated' relationships often show higher addiction scores, increased conflicts, and slightly less sleep compared to those who are single or in a stable relationship. These students also tend to spend more time on social media overall, suggesting a feedback loop where emotional complexity and digital interaction reinforce one another. Even students in stable relationships show more conflicts than single students, though to a lesser extent.

Social Media Platforms: A Detailed Breakdown:

Different platforms impact students in distinct ways. WhatsApp, Snapchat, and TikTok are associated with the highest addiction levels, frequent conflicts, reduced sleep, and lower mental health scores. Instagram users show high usage and moderate risks. Facebook ranks moderately across all variables, while platforms like Twitter and YouTube are linked to healthier patterns with lower usage and better mental health. LinkedIn, LINE, and VKontakte stand out as the safest platforms in terms of low addiction and better overall well-being. WeChat and KakaoTalk fall somewhere in between.

Country-wise Demographic Insights:

Country-based trends reveal how social media's impact varies across the globe. Students in the USA, UAE, Mexico, Ecuador, and India show the highest average daily usage. Armenia, Ecuador, the Czech Republic, Liechtenstein, and Lebanon report the highest addiction scores and also rank low in sleep and mental health. The overlap among these countries suggests that cultural or systemic factors may amplify the negative impact of excessive social media use.

Conclusion, Implications, and Future Research:

This analysis reveals that heavy social media use is common among students, particularly on platforms like Instagram and TikTok. High usage and addiction are closely tied to lower academic performance, poor sleep, and reduced mental health. Relationship dynamics, especially complicated ones, can intensify these effects. Countries with the highest addiction scores also report the lowest sleep and mental health scores, signaling a broader social concern.

To address these findings, actions to consider include:

- **Encouraging balanced social media habits among students.**
- **Raising awareness about platform-specific risks.**
- **Promoting mental health education related to digital behavior.**
- **Supporting further research into cultural and behavioral patterns of online engagement.**

Better social media management and healthier digital routines can help protect student well-being and academic performance in the long run.

Report and Analysis done by Tennich Brahim

Email: raistennich@gmail.com

Github:

Kaggle:

LinkedIn