

# Global Student Social media Usage,Addiction & Mental Health Analysis

## 1.Project Overview

This project focuses on analyzing **global student social media usage patterns** and examining their relationship with addiction levels, mental health scores, academic impact, sleep behavior, and demographic factors.

The analysis is presented through **two interactive Power BI dashboards**, transforming raw student survey data into meaningful insights. The dashboards help identify trends in social media addiction and its effects on student well-being across different ages, genders, academic levels, platforms, and countries.

## 2.Purpose & Objective

The primary purpose of this project is to understand how **social media usage affects students' mental health and academic performance on a global scale**.

The key objectives are to:

- Analyze daily social media usage patterns among students
- Measure addiction levels and identify high-risk groups
- Examine the relationship between addiction and mental health scores
- Evaluate the academic impact of excessive social media usage
- Identify platforms contributing most to addictive behavior
- Support data-driven awareness and intervention strategies

The dashboards enable stakeholders to quickly interpret complex behavioral data through intuitive visualizations.

## 3.Key Features

- **Interactive Slicers:** Filter data by Academic Level, Gender, Country, Social Media Platform, and Academic Impact
- **KPI Scorecards:** Instant overview of Addiction Score, Mental Health Score, Daily Usage Hours, Sleep Hours, and Age
- **Comparative Analysis:** Addiction vs Mental Health trends across demographics
- **Platform-Based Insights:** Identifies platforms with higher addiction risk
- **Global View:** Country-wise visualization of addiction and mental health scores

## 4. Visual Components

- **KPI Cards:** Display average addiction score, mental health score, daily usage hours, sleep hours, and age
- **Bar Charts:** Addiction score by age group and most-used platform
- **Pie & Donut Charts:** Academic impact distribution and gender-based analysis
- **Line & Column Charts:** Addiction and mental health trends by hours of usage
- **Scatter Plot:** Relationship between addiction score and mental health score
- **World Map:** Country-wise distribution of addiction and mental health scores

## 5. Tools & Technologies Used

- **Power BI** – Data modeling, visualization, and dashboard development
- **CSV Dataset** – Raw student social media usage data
- **DAX** – Calculated measures for averages, counts, and comparisons
- **Power Query** – Data cleaning and transformation

## 6. Dataset Summary

The dataset contains global student survey data related to social media behavior and well-being.

### Dataset Size

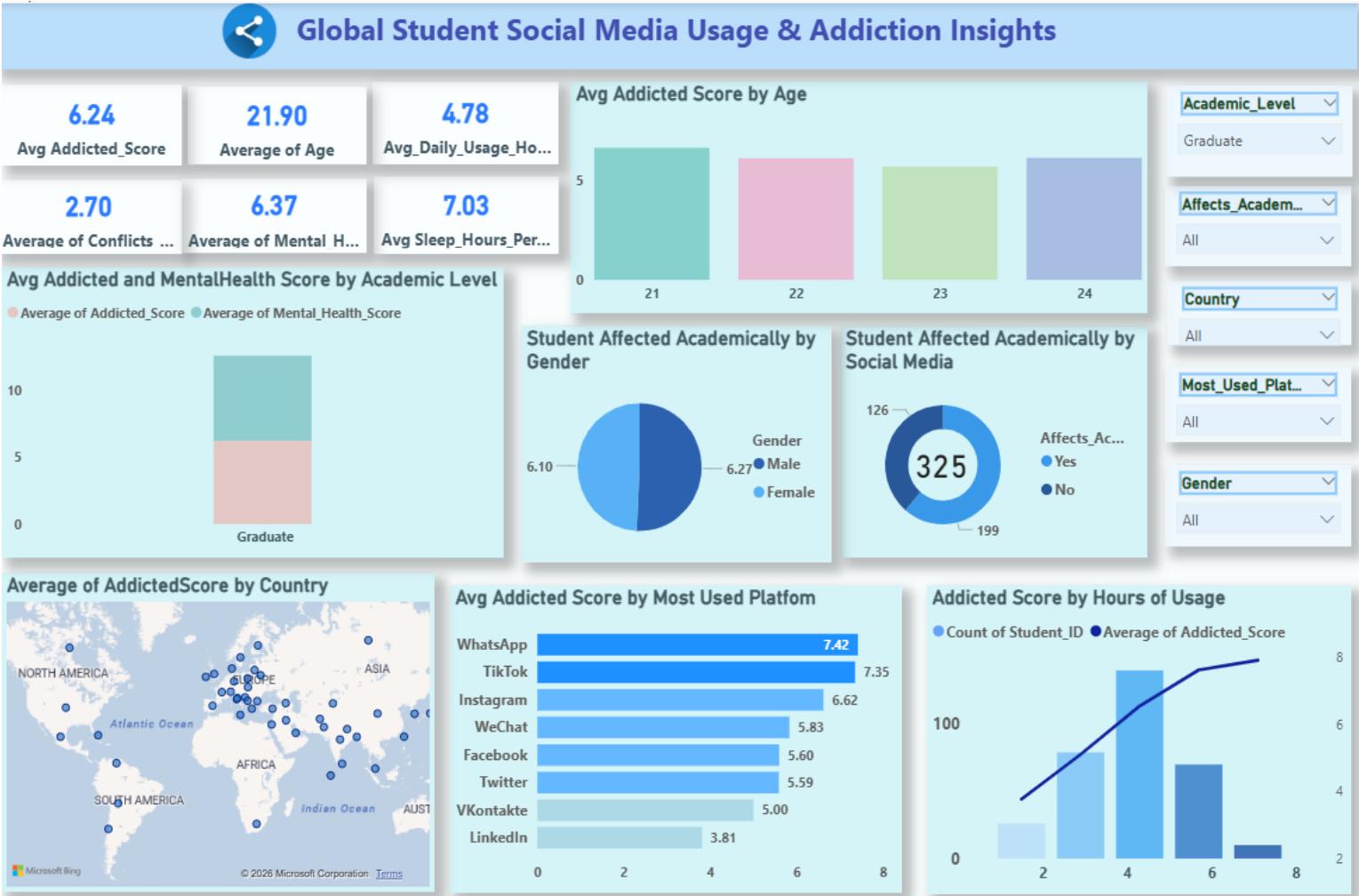
- **Number of Rows:** Multiple student records
- **Number of Columns:** Includes demographic, behavioral, and health-related attributes

### Key Attributes

- Student ID – Unique student identifier
- Age – Student age
- Gender – Male / Female
- Country – Geographic location
- Academic Level – Undergraduate / Graduate
- Daily Usage Hours – Time spent on social media
- Addiction Score – Social media dependency level
- Mental Health Score – Self-reported mental well-being
- Sleep Hours – Average sleep duration
- Academic Impact – Whether academics are affected
- Most Used Platform – Primary social media platform

## Data Preparation

- Removed missing and inconsistent values
- Standardized categorical fields (Gender, Academic Level, Platform)
- Ensured numerical consistency for scores and usage hours
- Created calculated measures for dashboard KPIs



**(Dashboard For Addiction Insights)**



## Global Student Social Media Usage - Mental Health Score Analysis

**7.30**

Avg Addicted\_Score

**21.76**

Average of Age

**5.44**

Avg\_Daily\_Usage\_Hours

**3.34**

Average of Conflicts\_...

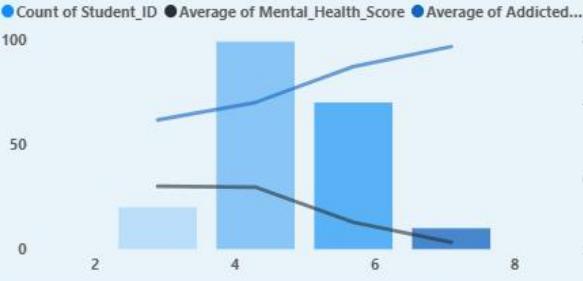
**5.67**

Average of Mental\_Hea...

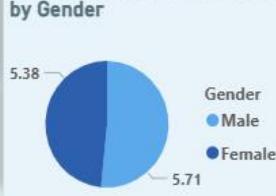
**6.57**

Avg Sleep\_Hours\_Per\_...

### Mental Health & Addicted Scores by Hours of Usage



### Average Mental health Score by Gender

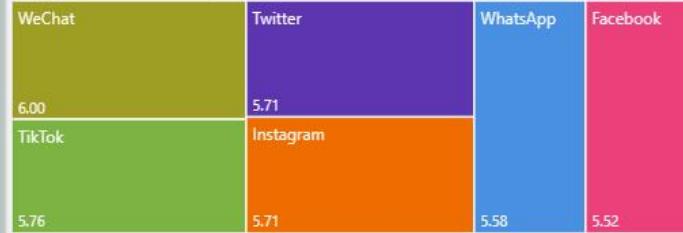


### Mental Affected Score of Academically Affected Students

Affects\_Academ...  
Yes

Academic_Level	Graduate
Affects_Academ...	Yes
Most_Used_Plat...	All
Gender	All
Country	All

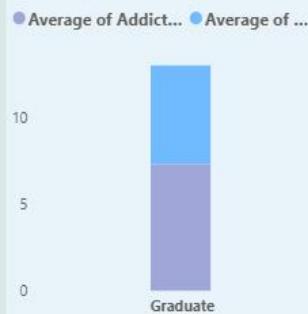
### Avg Addicted Score by Most Used Platform



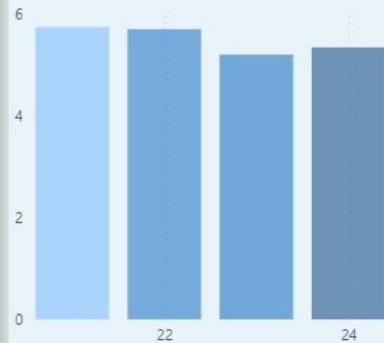
### Average Mental Health Score by Country



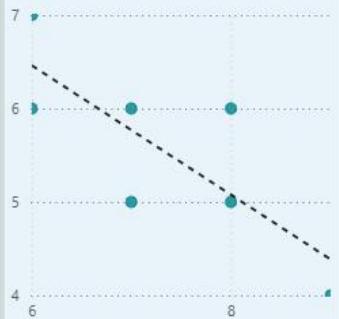
### Avg Addicted and MentalHealth Score by Academic Level



### Avg Mental Health Score by Age



### Addicted Score VS Mental Health Score



## (Dashboard for Mental Health Score Analysis)

## 7. Key Performance Indicators (KPI Section)

At the top of the dashboards, KPI cards present the most critical insights:

### ◆ Average Addiction Score

Represents the overall level of social media dependency among students.

**Insight:** Indicates moderate to high addiction levels, especially among students with higher daily usage hours.

### ◆ Average Daily Usage Hours

Shows how much time students spend on social media per day on average.

**Insight:** Higher usage hours strongly correlate with increased addiction scores and reduced mental health scores.

### ◆ Average Mental Health Score

Reflects students' overall mental well-being.

**Insight:** Mental health scores decline as addiction and usage hours increase.

#### ◆ Average Sleep Hours

Represents average sleep duration per student.

**Insight:** Increased social media usage is associated with reduced sleep hours.

## 8. Visual Analysis Sections

### Addiction Score by Age

- Higher addiction scores observed among young adults (21–24 age group)
- Indicates increased dependency during higher education years

**Insight:** Age plays a significant role in social media addiction patterns.

### Addiction & Mental Health by Hours of Usage

- Addiction score increases with higher usage hours
- Mental health score decreases as usage hours rise

**Insight:** Demonstrates a clear negative relationship between excessive social media use and mental well-being.

### Academic Impact Analysis

- A considerable number of students report being academically affected
- Both genders are impacted with minimal variation

**Insight:** Social media addiction negatively affects academic performance regardless of gender.

### Platform-Based Addiction Analysis

- **WhatsApp, TikTok, and Instagram** show higher addiction scores
- Platforms like LinkedIn show lower addiction levels

**Insight:** Entertainment-focused platforms contribute more to addictive behavior.

### Country-Wise Analysis

- Addiction and mental health concerns observed across multiple regions
- Indicates that social media addiction is a global issue, not region-specific

## **9.Buisness Insight**

- Excessive social media usage significantly affects mental health, sleep quality, and academics
- Addiction risk increases with usage duration and platform type
- Educational institutions can use these insights to promote digital well-being programs
- Students benefit from balanced and mindful social media usage habits
- Policymakers and counselors can design targeted intervention strategies