

Social Media Addiction and Student's Self-Control

Exploring impacts on time, emotions, and academics

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Executive Summary

- Survey of 705 students from 16 - 25 years old (2024 data)
- High social media addiction → lower self-control
- High group: 6 hours/day usage, 3 conflicts, 100% report academic impact
- Recommendation: school support, awareness workshops, digital campaigns



Introduction

- Social media is a core part of student life
- Risks: Addiction may affect academics, emotions, relationships
- Research gap: Unclear if heavy use lowers self-control
- Aim: Examine link between addiction level & self-control



Dataset Description

The dataset is from **Students Social Media Addiction** (Kaggle, 2024).

Table 1: Summary of dataset variables

Variable	Description
Student_ID	Unique identifier for each student
Addicted_Level	Level of social media addiction of the student (1-3: Low, 4-6: Medium, 7-10: High)
Avg_Daily_Usage_Hours	Daily hours students spend on social media
Conflicts_Over_Social_Media	Number of social media-related conflicts with family, friends, or partners
Affects_Academic_Perform	Whether social media use affects academic results (1: Yes, 0: No)

Cleaning data

- Categorized **Addicted_Score** into **Addicted_Level**:
 - **Low (1–3), Medium (4–6), High (7–10)**
- Recoded **Affects_Academic_Perform** to binary (1 = Yes, 0 = No)
- Removed irrelevant variables

Methods

Our research question is:

Does the addiction to social media reduce student's sense of self-control?

To explore this, we examined differences across three addiction groups (Low / Medium / High) in relation to:

- **Time management** → Avg_Daily_Usage_Hours
- **Emotional regulation** → Conflicts_Over_Social_Media
- **Academic impact** → Affects_Academic_Perform

We applied descriptive analysis, summarizing each variable by addiction group and visualizing patterns using bar plots, box plot and jitter plot.

Descriptive Summary

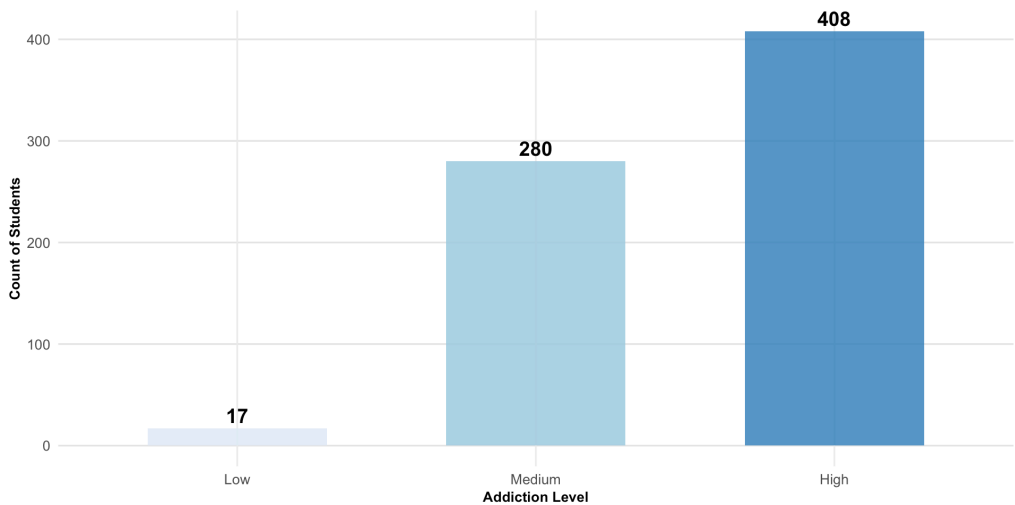


Figure 1: Number of Students by Addiction Level

Summary Points

- Main: Medium–High addiction level
- Average daily use: 4.8h
- Conflicts: median = 3
- 64% reported academic impact

Table 2: Summary statistics of thre dependent variables

Variable	Mean	Median	Min	Max
Avg_Daily_Usage_Hours	4.92	4.8	1.5	8.5
Conflicts_Over_Social_Media	2.85	3.0	0.0	5.0
Affect_Academic_Perform	0.64	1.0	0.0	1.0

Results: Usage Hours

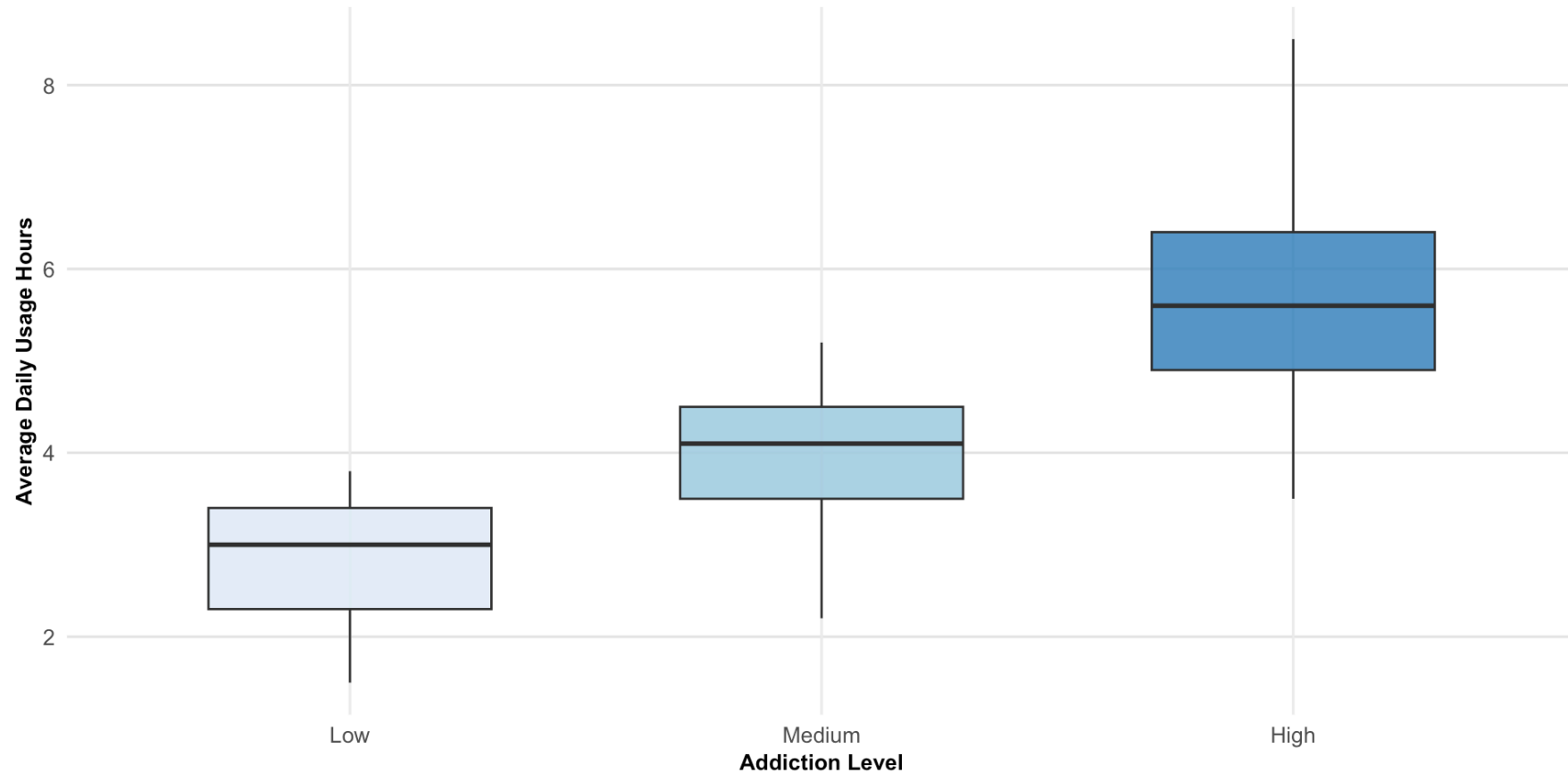


Figure 2: Daily Social Media Usage by Addiction Level

- High group: ~6 hours/day
- Medium (4h) and Low (3.5h)

Results: Conflicts & Academic Impact

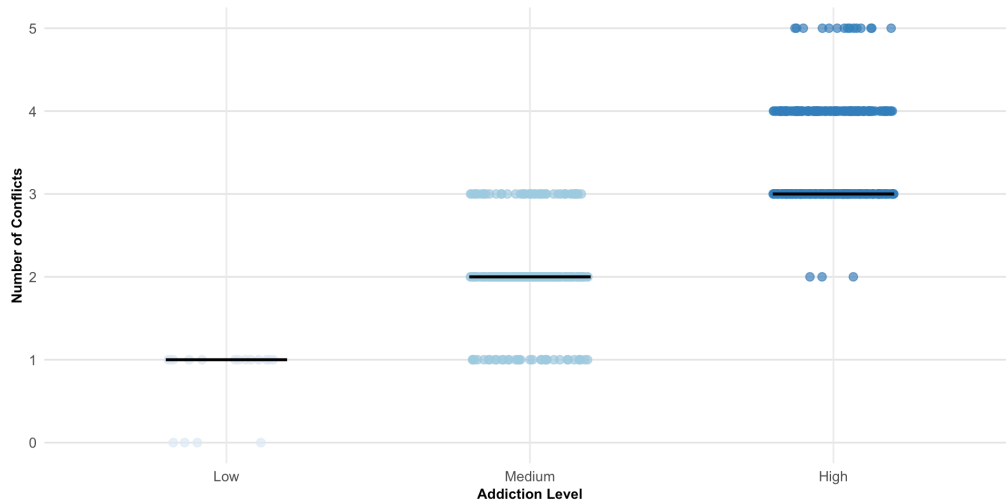


Figure 3: Social Conflicts by Addiction Level (Jitter); Black Lines Show Group Medians

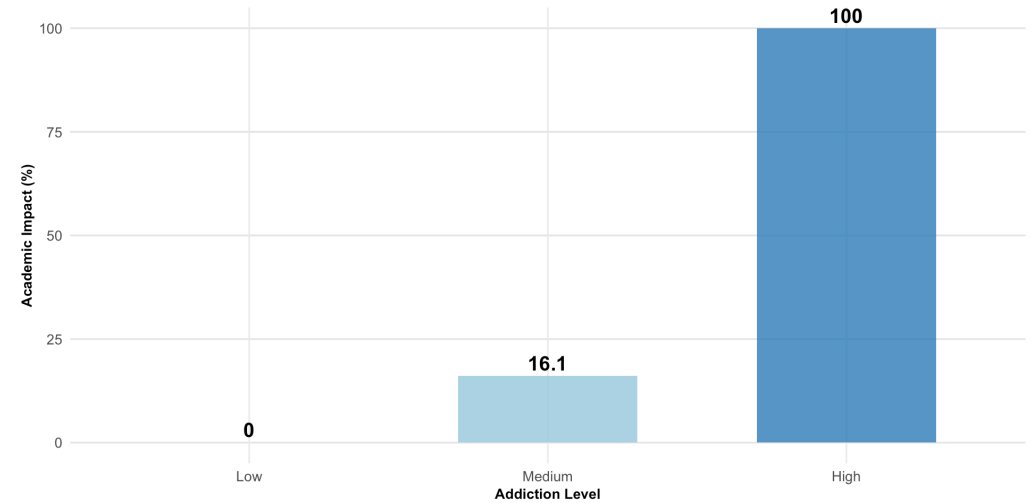


Figure 4: Percentage of Students Reporting Academic Impact by Addiction Level

Key Findings

- Conflicts:
 - Median: High = 3, Medium = 2, Low = 1
- Academic impact: 100% High group affected

Discussion & Conclusion

Discussion

- **Time Loss:** Students lose track of time → Less personal growth
- **Conflicts:** Stress, Toxic content → More arguments
- **Academics:** Social media displaces study time; Promotes low-effort habits

Conclusion

- Clear link between addiction & lower self-control
- High users: more conflicts, time loss, poor academics
- Suggests serious long-term developmental risks

Recommendations

- Awareness workshops in schools
- Digital detox challenges (e.g., 30-day screen reduction)
- Parent-school coordination for support skills
- Further research: expand sample & examine psychological/addictive content

