

Presented by:-Dongwan Hong, Mathan Mahendran, Upasana Bhattacharjee, Maya Iyer

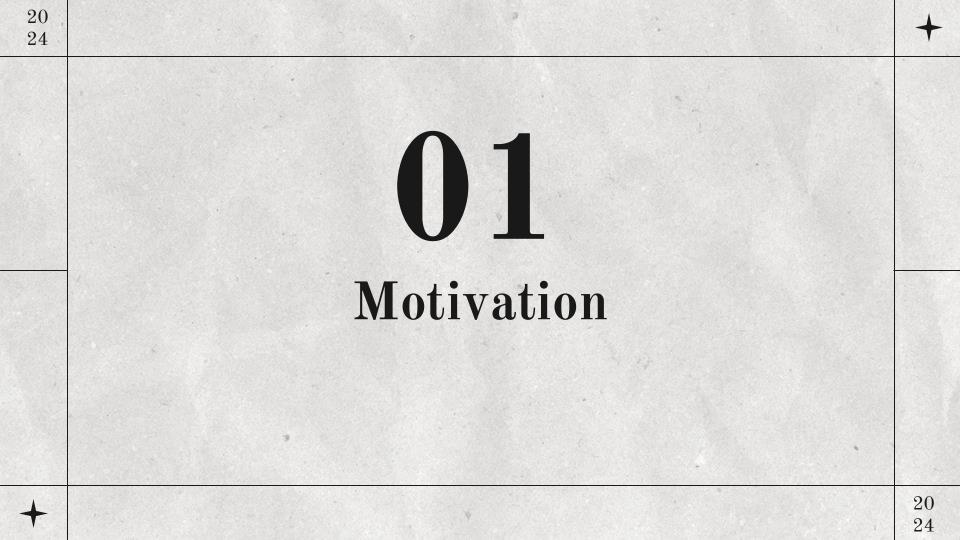


Table of contents Motivation 04 Data/Social Media Related Work 05 Method/Approach 03 Goals Conclusion/Implications

# Introduction

In today's digital age, social media has become an integral part of daily life, profoundly influencing how individuals interact, communicate, and consume information. As such, understanding the implications of social media usage on academic procrastination is of paramount importance.









#### Academic Performance

Shaping academic success and digital experiences is crucial for education, institutions, and the field of social computing.



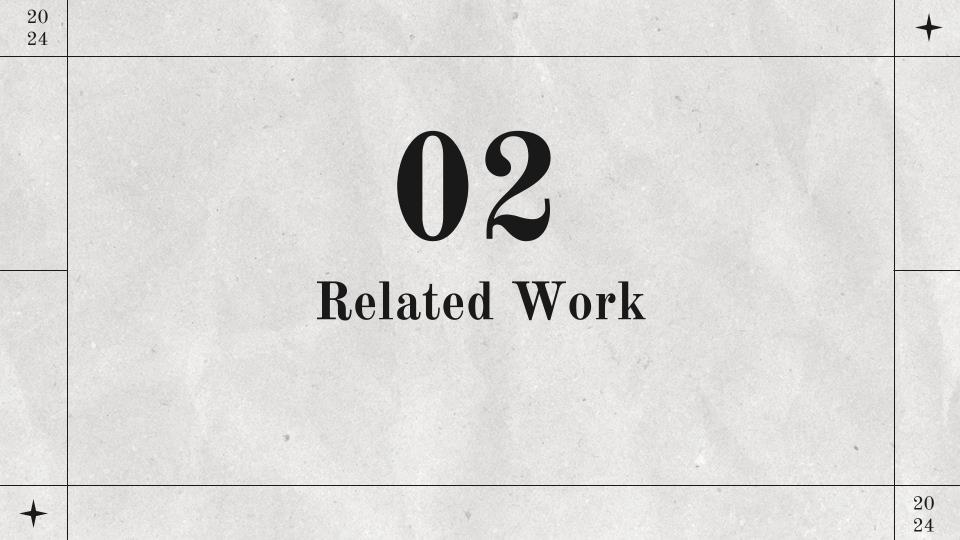
#### Psychological well-being

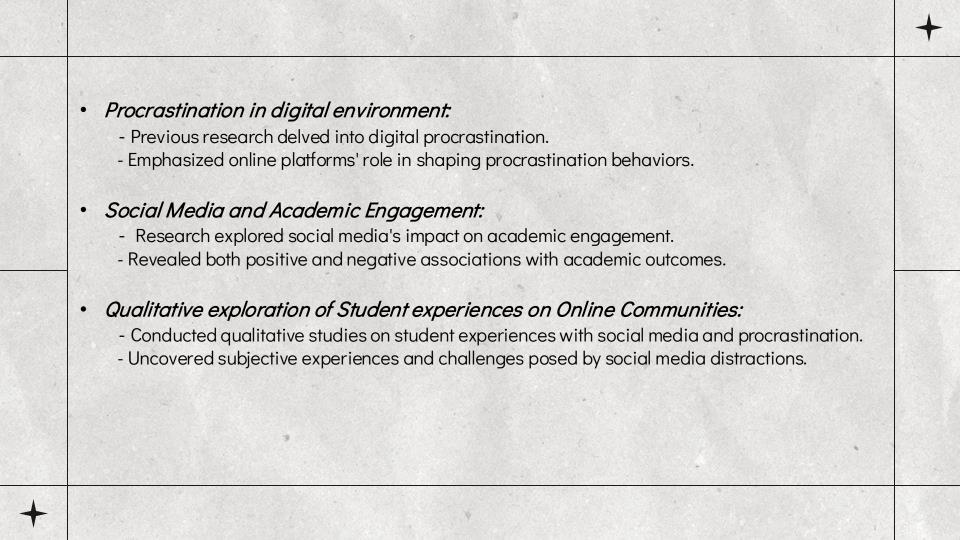
The association with stress, anxiety, and mental health informs educational practices.



#### Collaborative Impact

The study aims to enhance student well-being and learning environments by uncovering dynamics within social computing interactions, benefiting educators, social computing professionals, and technologists







### Two hypothesis



#### Hypothesis 1

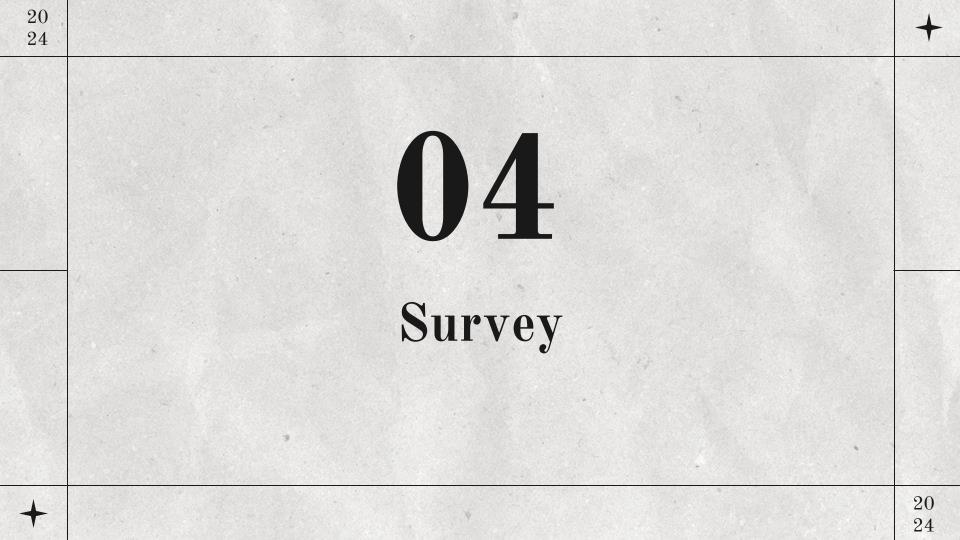
Subjects who engage in high social media use tend to procrastinate more academically.



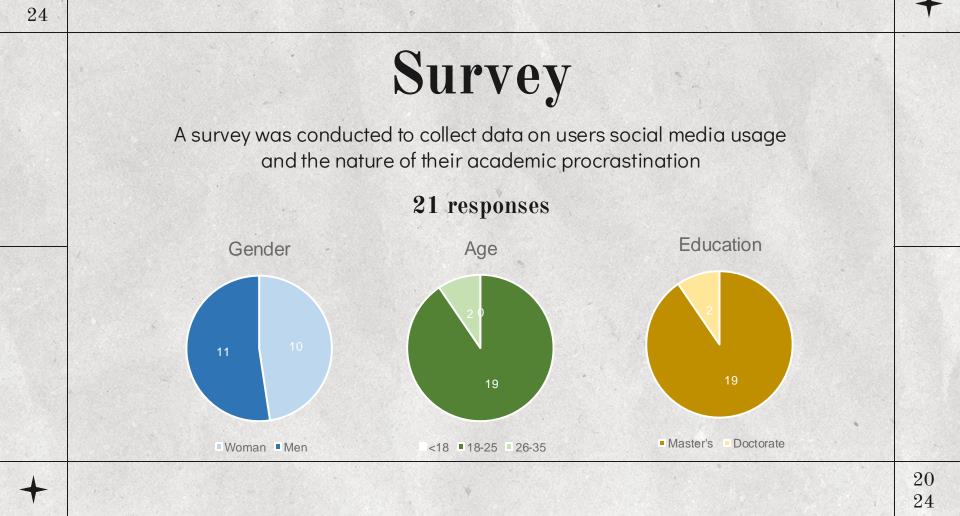
#### Hypothesis 2

Academic Procrastination negatively correlates with Self-efficacy



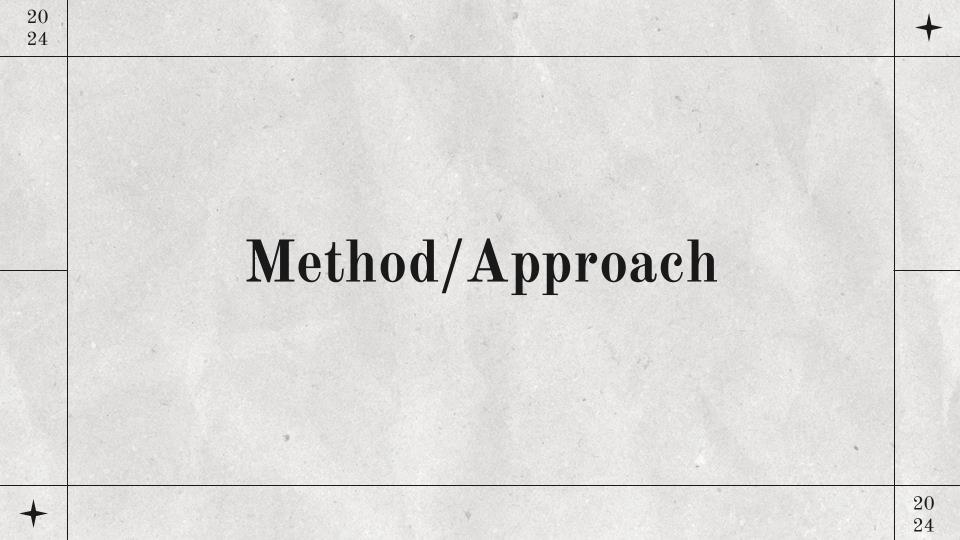








Questions			
	Screentime/GPA	<ul> <li>"What is your current GPA? (E.g. 3.8/4.0)"</li> <li>"What is your Daily average screen time?"</li> </ul>	
O,	BSMAS	<ul> <li>"You feel and urge to use social media more and more."</li> <li>"You use social media to forget about personal problems."</li> </ul>	
	MMMS	"How often do you check notifications or messages on social media platforms while studying?"	
	APS	<ul> <li>"I put off projects until the last minute."</li> <li>"I have found myself waiting until the day before to start a big project."</li> </ul>	
<u>&amp;</u>	Self-Efficacy	<ul> <li>"I am confident that I can achieve all targets that I set for myself."</li> <li>"Even in most difficult situations, I can strategize to resolve and deal with it."</li> </ul>	

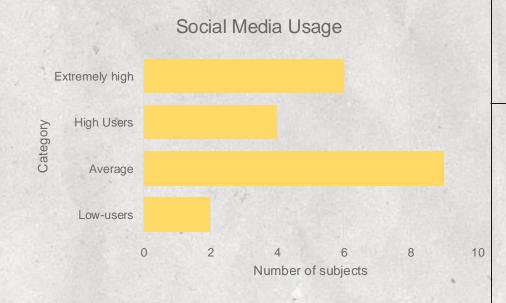


#### Survey

### Social Media Usage

The descriptive statistics on the Social Networking time use scale reveal four types of SNS users, i.e., low, average, high, and extremely high users,

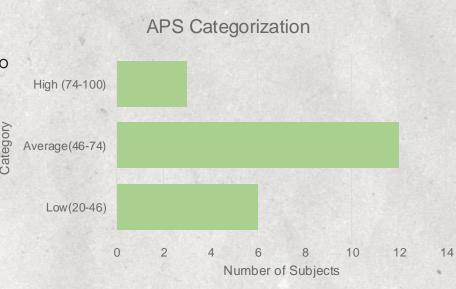
 Majority of the subjects being average users (~43%)



#### Academic Procrastination Scale

The Academic Procrastination scale also shows three levels of academic procrastination: low, average, and high academic procrastination.

- Majority of the subjects being average users (~57%)
- Mean score of 60.
- Standard Deviation of 14.5

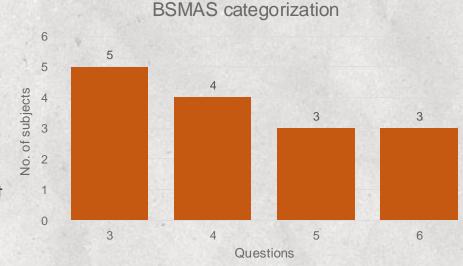




### Bergen Social Media Addiction Scale

In terms of interpretive guidelines, it's generally believed that scoring more than 3 on at least 3 out of the 6 items could indicate an addiction to social media.

15 out of 21 subjects
 (~71%) answered more than 3 on at least 3 out of the 6 items.

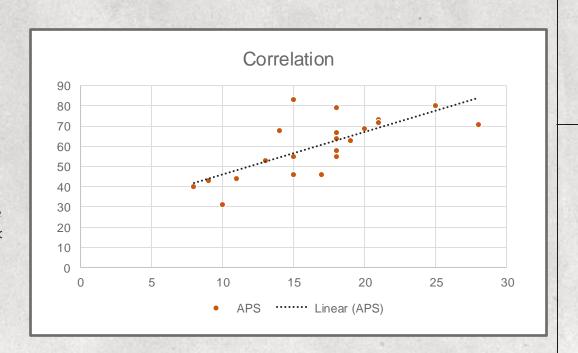




#### Correlation between BSMAS and APS

We analyzed the BSMAS and APS scores by finding a correlation between the two variables.

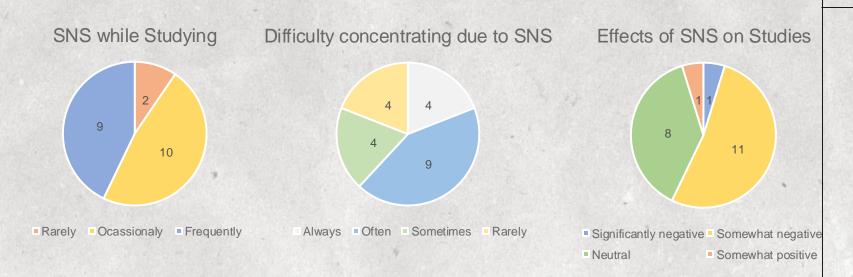
- Positive correlation of 0.72
- p-value of 0.000233. the result is significant at p< .05



#### Survey

### Self-efficacy and Grades

- Possible self-efficacy score: 5-25Average self-efficacy score: 17
- Standard deviation: ~5
- Average CGPA: 3.9



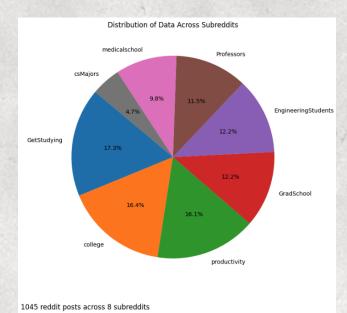


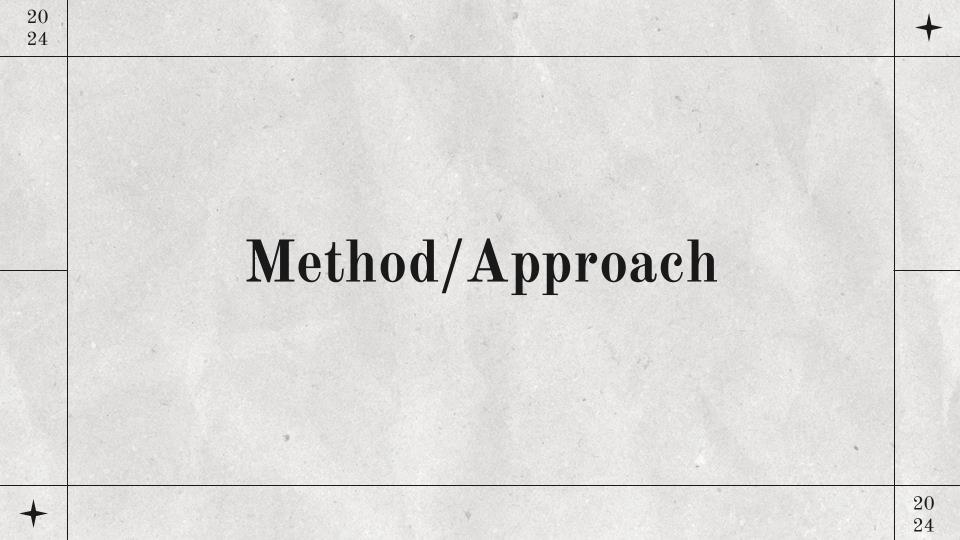




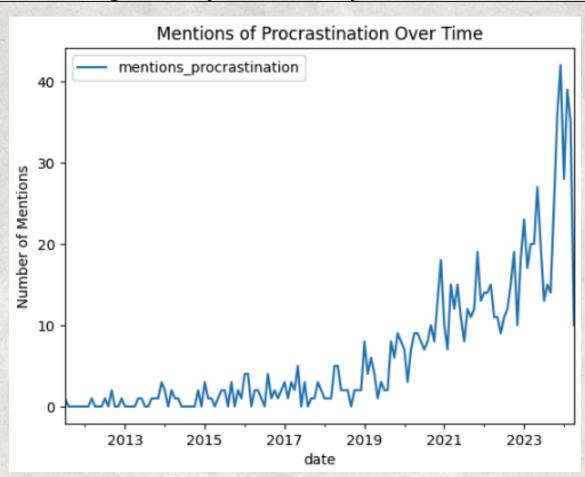
# Reddit Dataset

- 1. Scraped Reddit posts for mentions of procrastination among 8 different subreddits
- 2. Queried keywords associated with procrastination such as social media, assignments, social life, classes, covid etc.





#### **Exploratory Data Analysis - Basic**



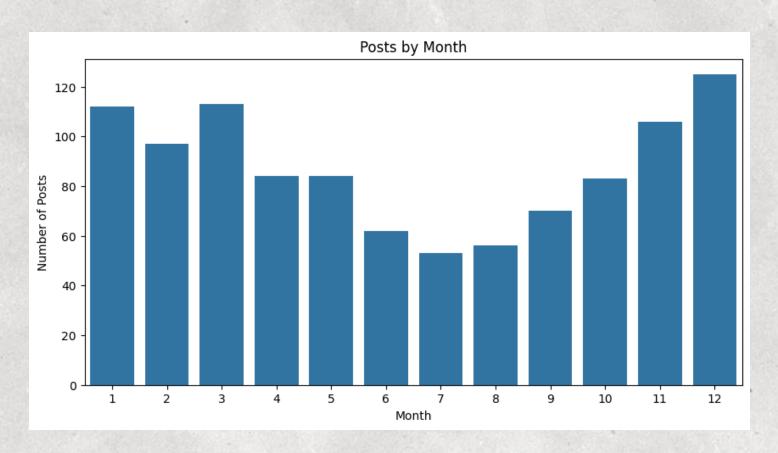
#### Word Cloud - Bigrams





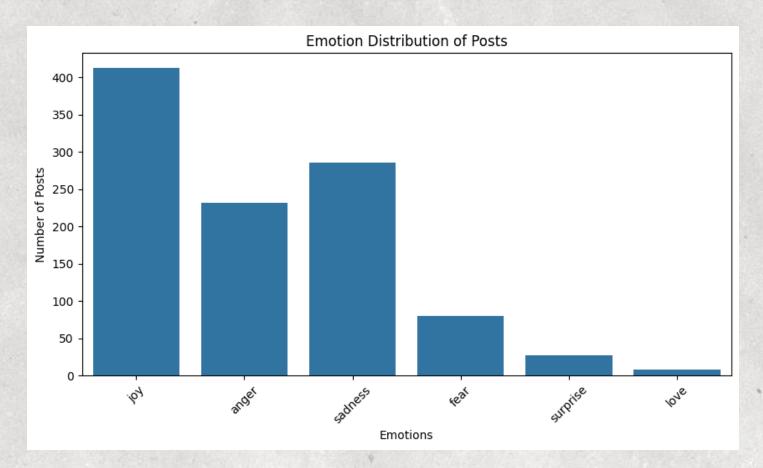
#### **Exploratory Data Analysis - Temporal**





#### Exploratory Data Analysis – Emotion Keywords





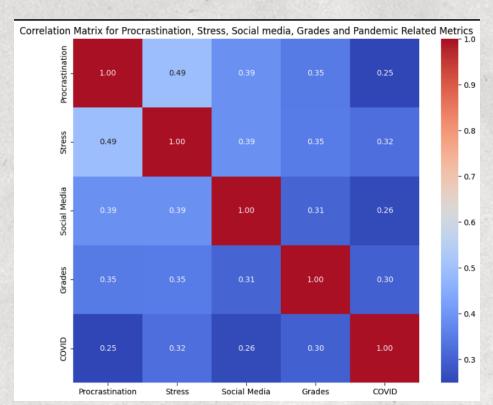


# Correlation Analysis

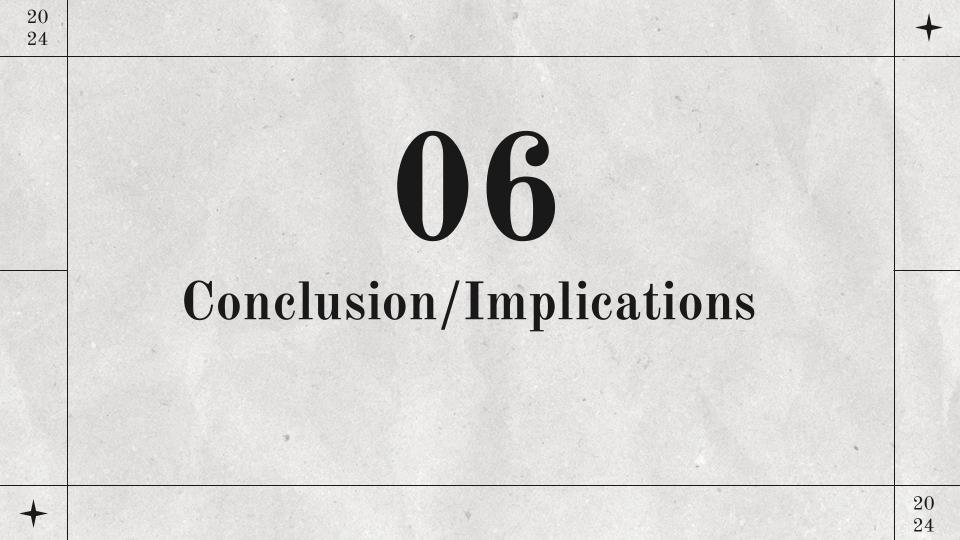
- 1. Identify keywords associated with each feature in procrastination, stress, social media, grades and pandemic.
- 2. Use lemmatization to standardize variations of keywords in the post text and search for mentions of each feature.
- 3. Calculate correlation between pairs of features.
- 4. Positive correlation found with procrastination and all features among stress, social media, grades and pandemic, with low P-values.



## Correlation Analysis



Feature Comparison	P-values
Procrastination and Stress	2.79E-65
Procrastination and Social media	3.44E-39
Procrastination and Grades	7.11E-31
Procrastination and Covid	3.07E-16



#### Conclusion

Social Media Usage and Academic Procrastination have a positive correlation





Positive correlation between procrastination and stress, grades, social media use and the pandemic.

Burnout to counter academic procrastination effects





Students perform well academically despite procrastination due to high self-efficacy



#### **Implications**

Policy and Guidelines





**Educational Intervention** 

Parental Guidance





Technological Design

Mental Health Support







Questions?



Thank you!!