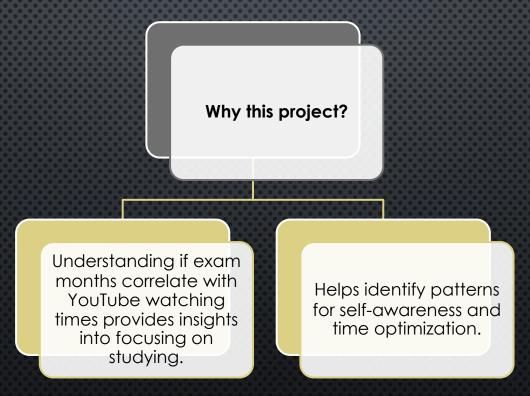
YOUTUBE WATCHING AND EXAM PATTERN ANALYSIS

A Data-Driven Look into Viewing and studying analysis

MERT KALYONCU

MOTIVATION



GOALS

Key Questions: Do YouTube viewing hours opposite with exam times?

Are there specific patterns that reveal connections between studying and viewing habits?

Importance: Helps evaluate digital consumption alongside monthly routines.

Highlights multitasking behaviors and habits.

HYPOTHESIS

EXPECTED OUTCOMES:

PEAKS IN YOUTUBE WATCHING TIMES ARE OPPOSITE WITH EXAM TIMES AND WEEKS.

DATASET

• YOUTUBE DATA: EXPORTED VIA GOOGLE TAKEOUT (TIMESTAMPS, TITLES, CHANNELS).

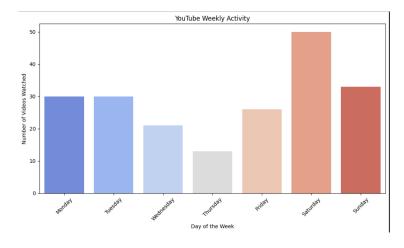
EXPLORATORY DATA ANALYSIS (EDA)

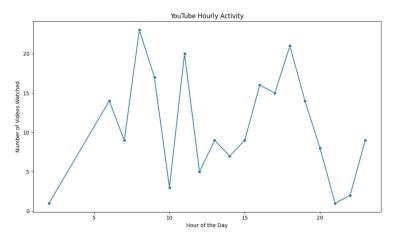
OVERVIEW:

• STARTED WITH ANALYZING HOURLY AND DAILY VIEWING TRENDS.

FINDINGS:

- WATCHING TRENDS PEAK IN THE EVENINGS.
- THERE IS A TREND IN WEEKENDS WHERE I DO NOT STUDY.





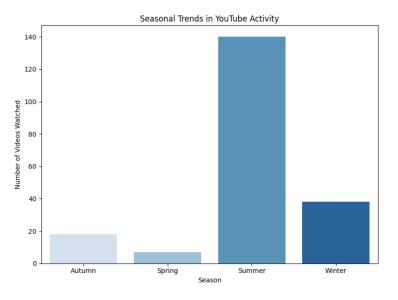
EXPLORATORY DATA ANALYSIS (EDA)

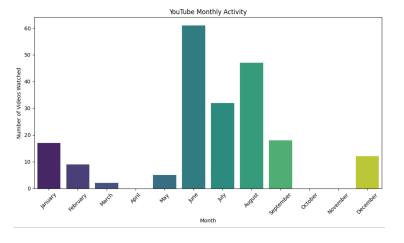
OVERVIEW:

 CONTINUE WITH ANALYZING MONTHLY AND SEASONLY VIEWING TRENDS.

FINDINGS:

 WATCHING TRENDS PEAK IN SUMMER TIME WHERE I DO NOT HAVE SCHOOL OR EXAMS.





DATA CLEANING & ADJUSTMENTS

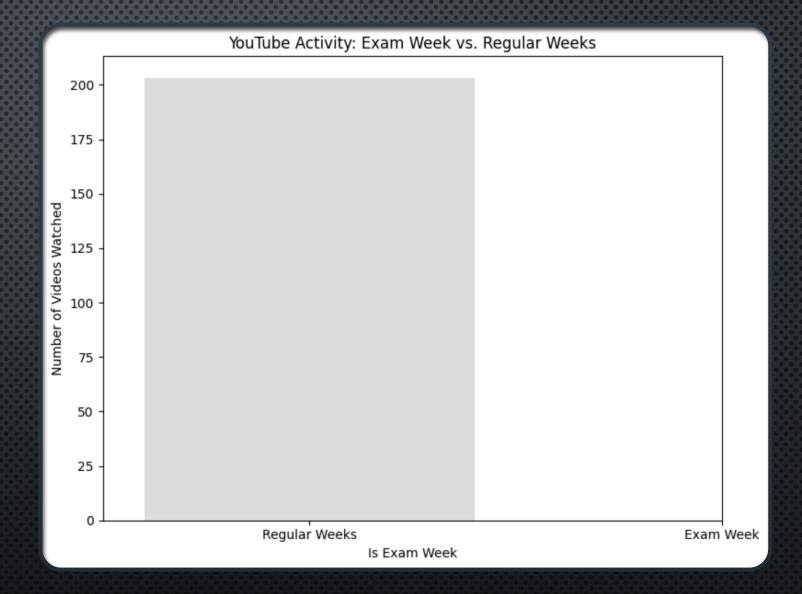
STEPS TAKEN:

- CONVERTED TIMESTAMPS TO LOCAL TIME.
- EXTRACTED HOURS, WEEKDAYS, AND DATES.

```
3]
    1 watch_history['Timestamp'] = pd.to_datetime(watch_history['Timest
    2 bank transactions['Timestamp'] = pd.to datetime(bank transactions
    1 watch_history['Date'] = watch_history['Timestamp'].dt.date
    2 watch_history['Hour'] = watch_history['Timestamp'].dt.hour
    3 watch_history['Weekday'] = watch_history['Timestamp'].dt.day_name
    5 bank transactions['Date'] = bank transactions['Timestamp'].dt.dat
    6 bank_transactions['Hour'] = bank_transactions['Timestamp'].dt.hou
    7 bank_transactions['Weekday'] = bank_transactions['Timestamp'].dt.
5]
    1 watch_history.to_csv('cleaned_watch_history_updated.csv', index=F
    2 bank_transactions.to_csv('cleaned_bank_transactions_updated.csv',
    1 print("Watch History Dataset Summary:")
    2 print(watch history.info())
    3 print(watch history.describe(include='all'))
    5 print("\nBank Transactions Dataset Summary:")
    6 print(bank transactions.info())
    7 print(bank_transactions.describe(include='all'))
```

DETAILED ANALYSIS

 It can be seen that there is a STRONG OPPOSITION WITH MY EXAM WEEKS AND YOUTUBE WATCHING TREND.



CONCLUSION

KEY TAKEAWAYS:

HYPOTHESIS SUPPORTED—YOUTUBE WATCHING TIMES ARE OPPOSITE WITH EXAM WEEKS AND MONTHS.

WEEKENDS AND EVENING TIMES STANDOUT WHERE I DO NOT GO TO SCHOOL OR STUDY.

IMPLICATIONS: REFLECTS MULTITASKING HABITS THAT COMBINE ESTUDYING AND EATING.

FUTURE WORK

POTENTIAL IMPROVEMENTS:.

• ADD CONTENT TYPE ANALYSIS (E.G., EDUCATION VIDEOS).