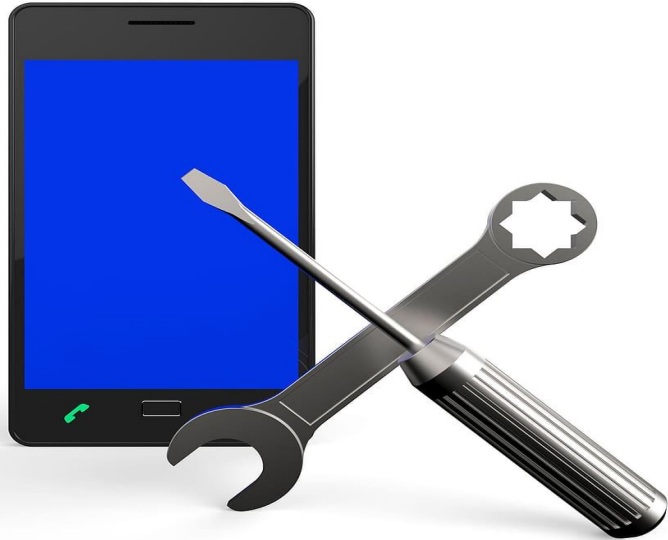# WHATSAPP CHAT ANALYSIS

Introduction:

- ❏ Whatsapp has been the most used mode of communication.
- ❏ Whatsapp chat analysis can be used for extracting information from the chat.
- ❏ This Project takes those chats and provide a deep analysis of that data.

Objective

1. To find total messages, total words, total media shared in the WhatsApp chat

2. To find the most active person in the group.

3. To find the busiest day in a month.

4. To find the most frequently and commonly used words in the group.

5. To find the frequency of chat in every day and month.

6. To find the time series plot of the number of messages.

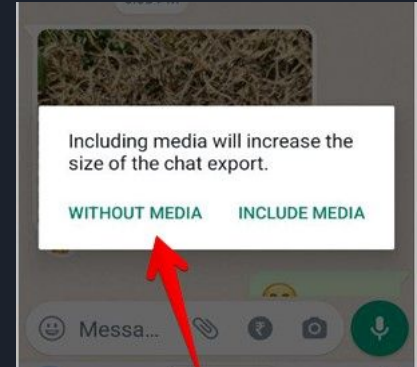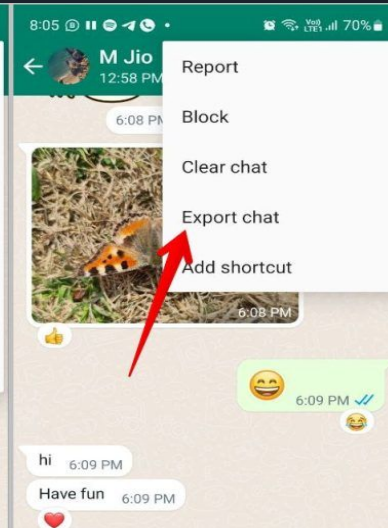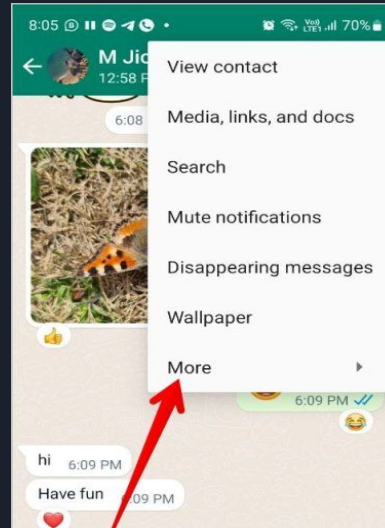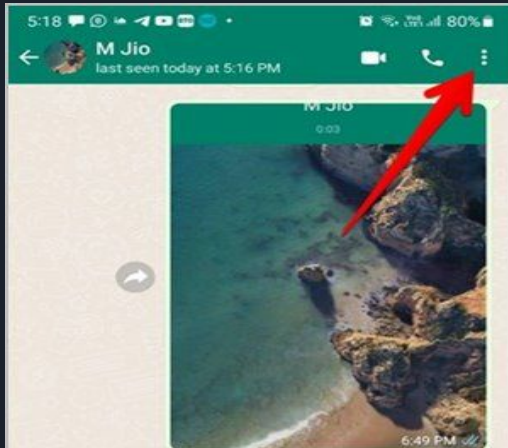# Flowchart Of Proposed System:
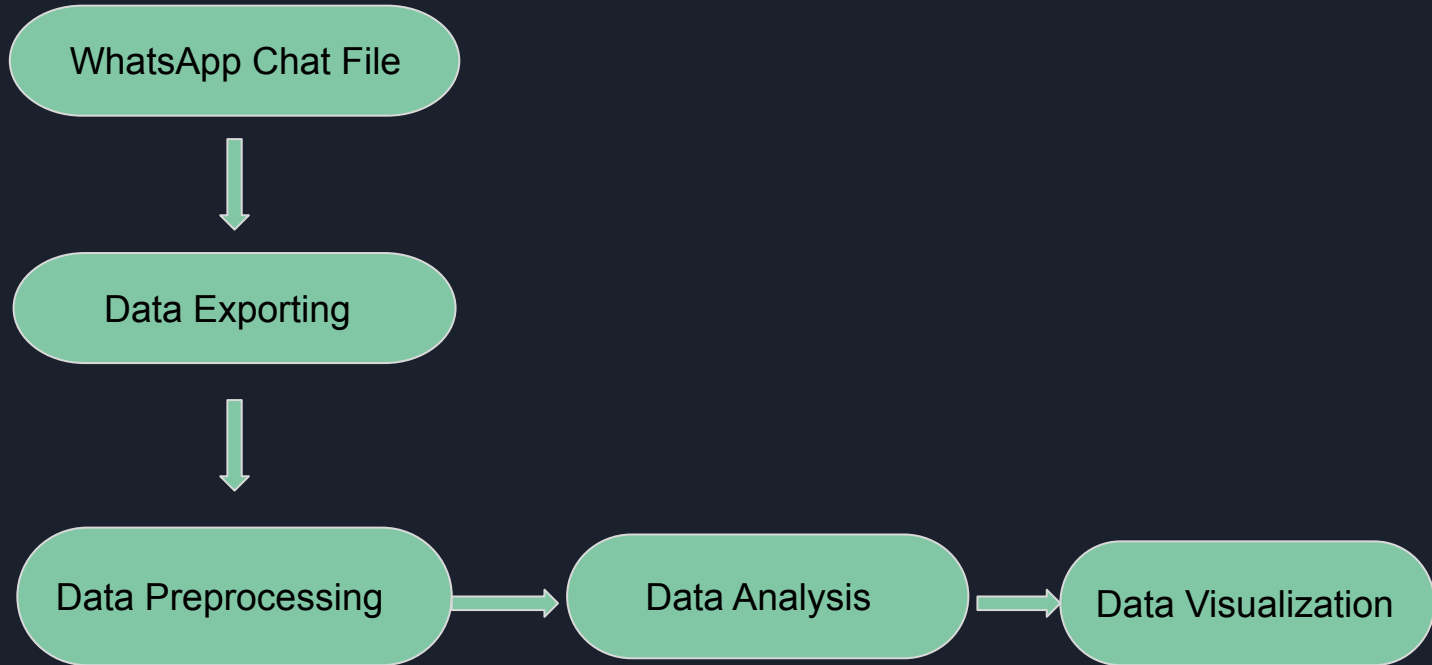
REQUIRED LIBRARIES

- **REGEX**
- **PANDAS**
- **MATPLOTLIB**
- **NUMPY**
- **WORDCLOUD**
- **PLOTLY.EXPRESS**

Data collection

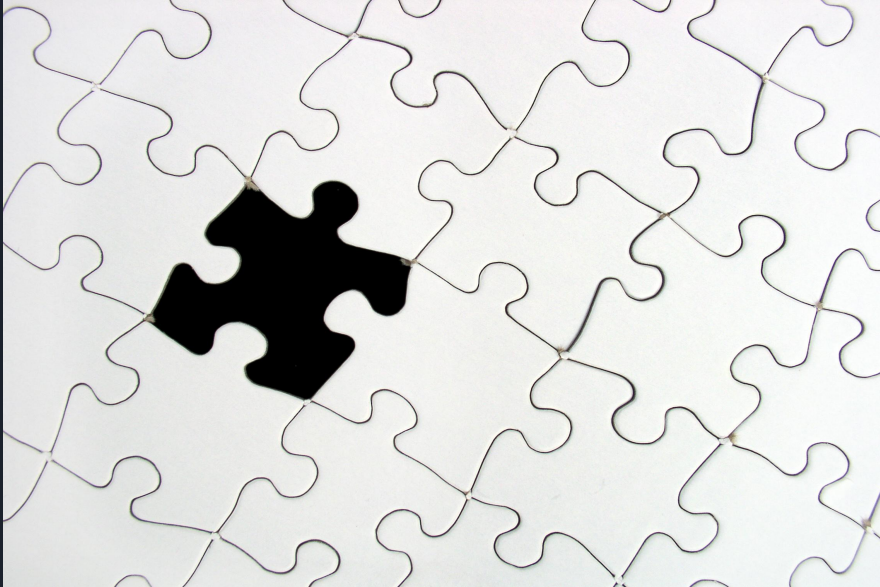EXPORTING THE CHAT ....

Steps To Export Chat:

DATA PREPROCESSING

>Pattern Matching - Extracting the date values by the regular expression.

> Accessing the sender

> Extracting timestamp from the chat.

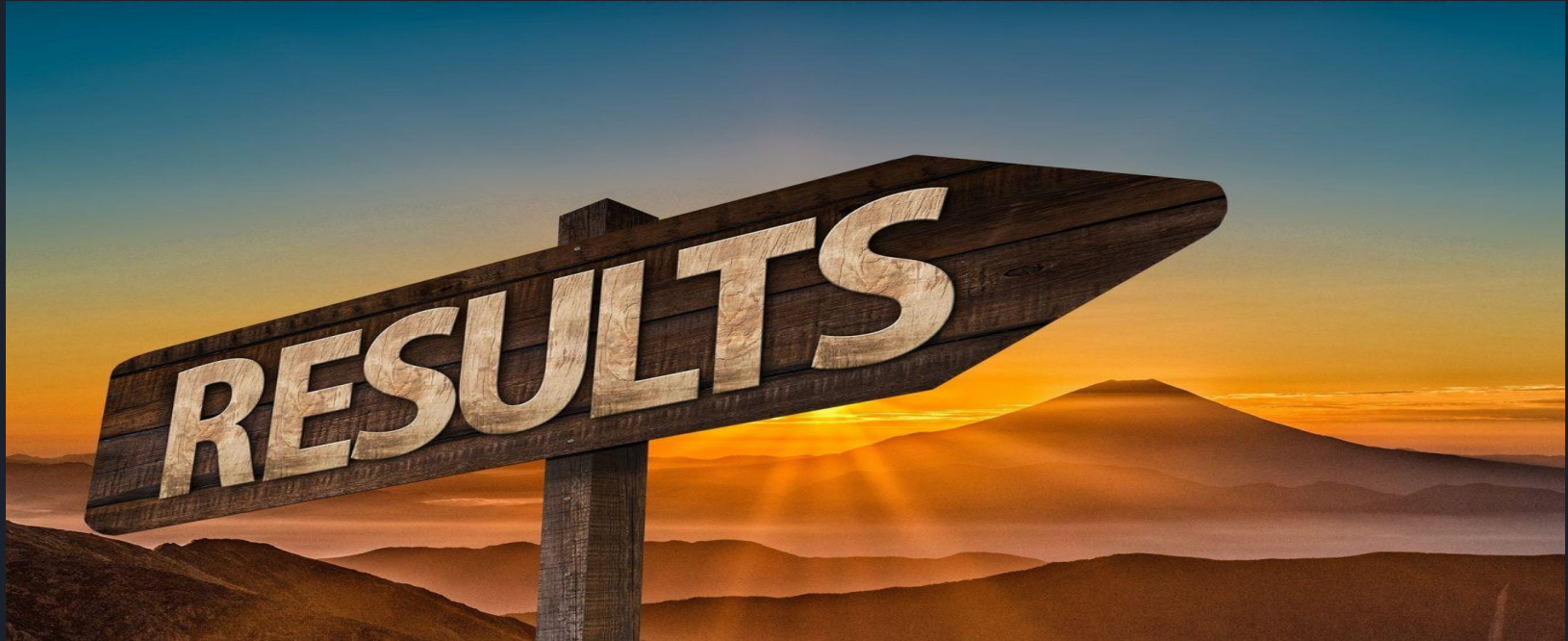> Dropping the empty rows in the dataframe.

> Re indexing the dataframe.

INSERTING THE CLEANED DATA INTO DATA FRAME

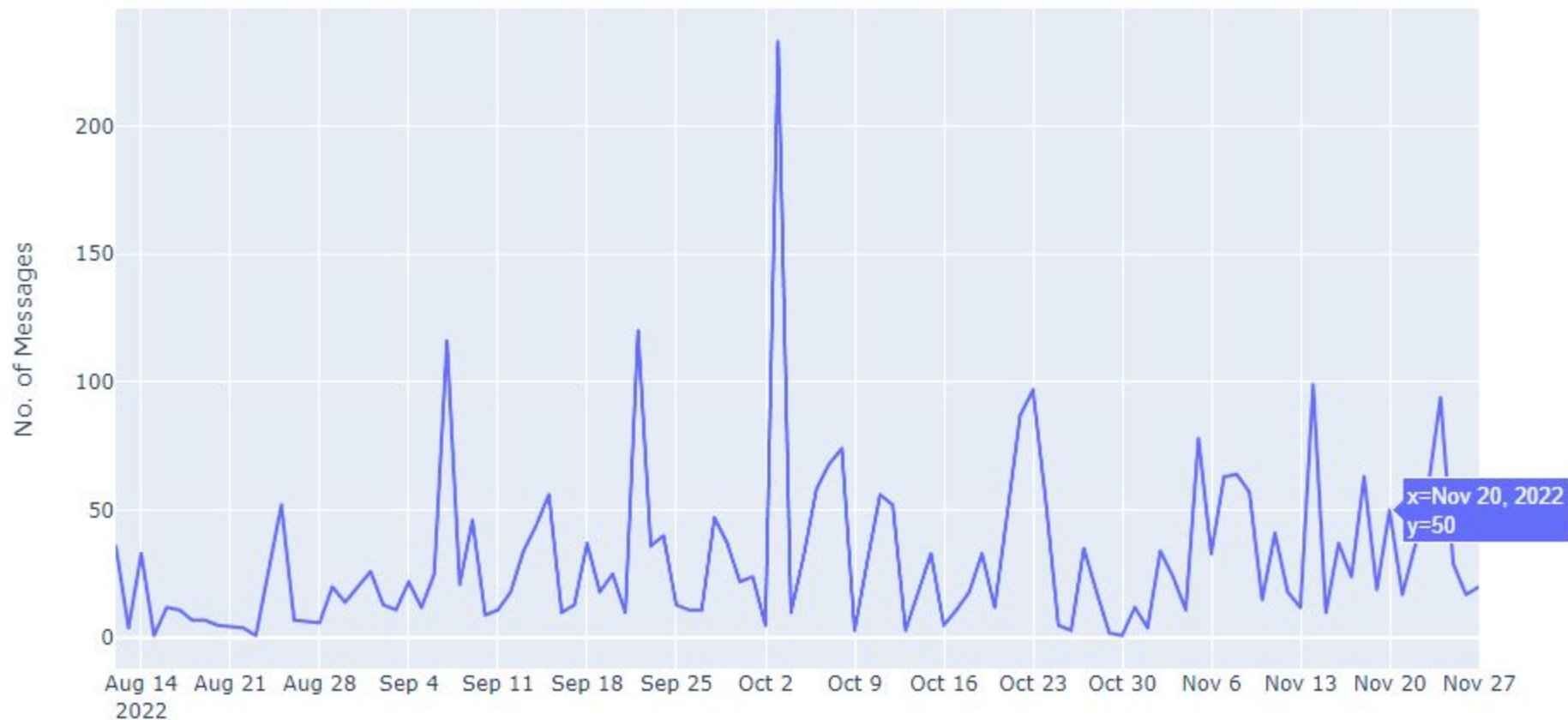> TRANSFORMING DATASET INTO PANDAS DATAFRAME

HERE COMES THE FINAL RESULTS...........

WORD CLOUD.............. CORPUS OF THE TEXT

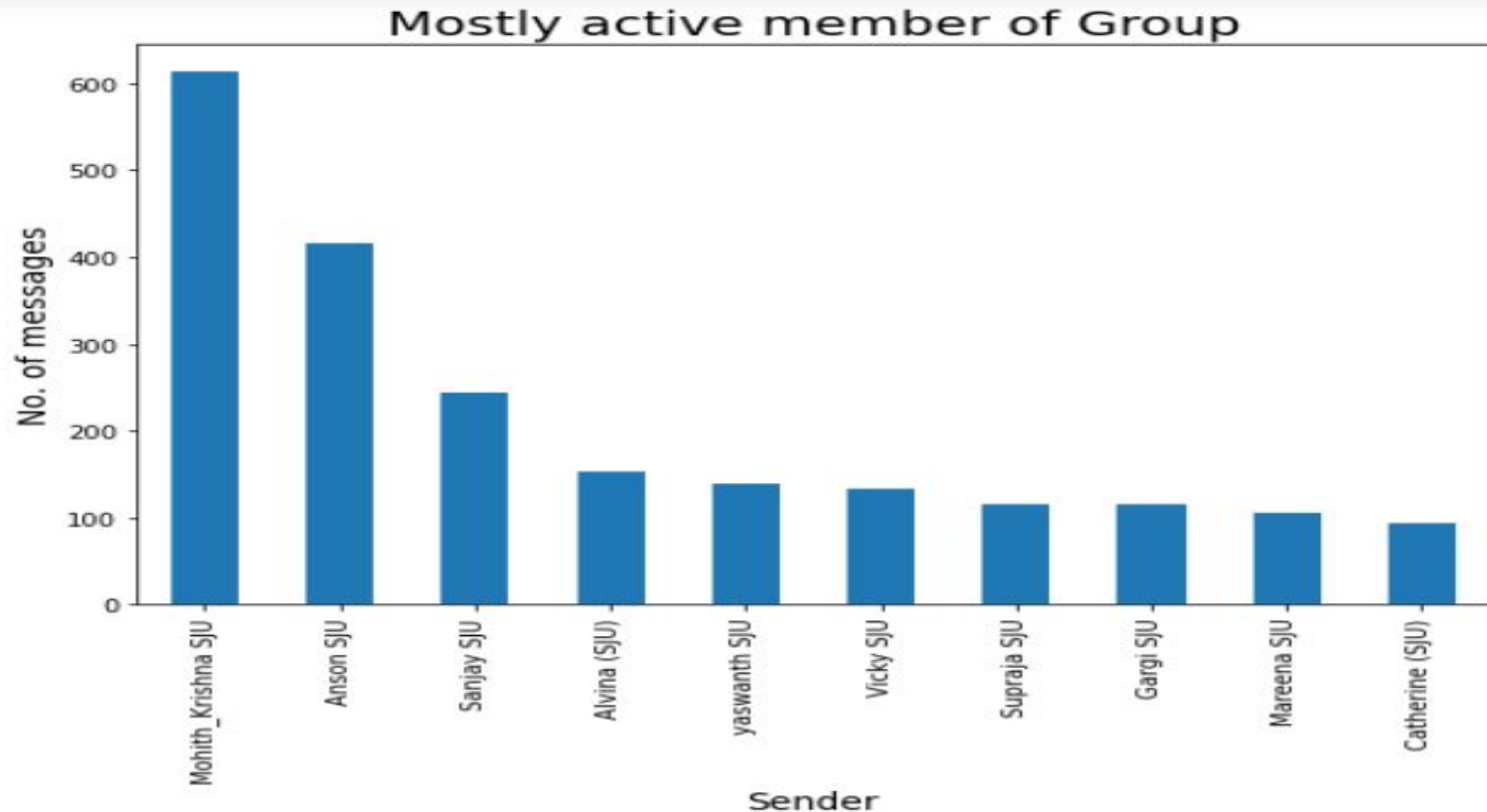Analysis of number of message using TimeSeries plot.

INFERENCES:

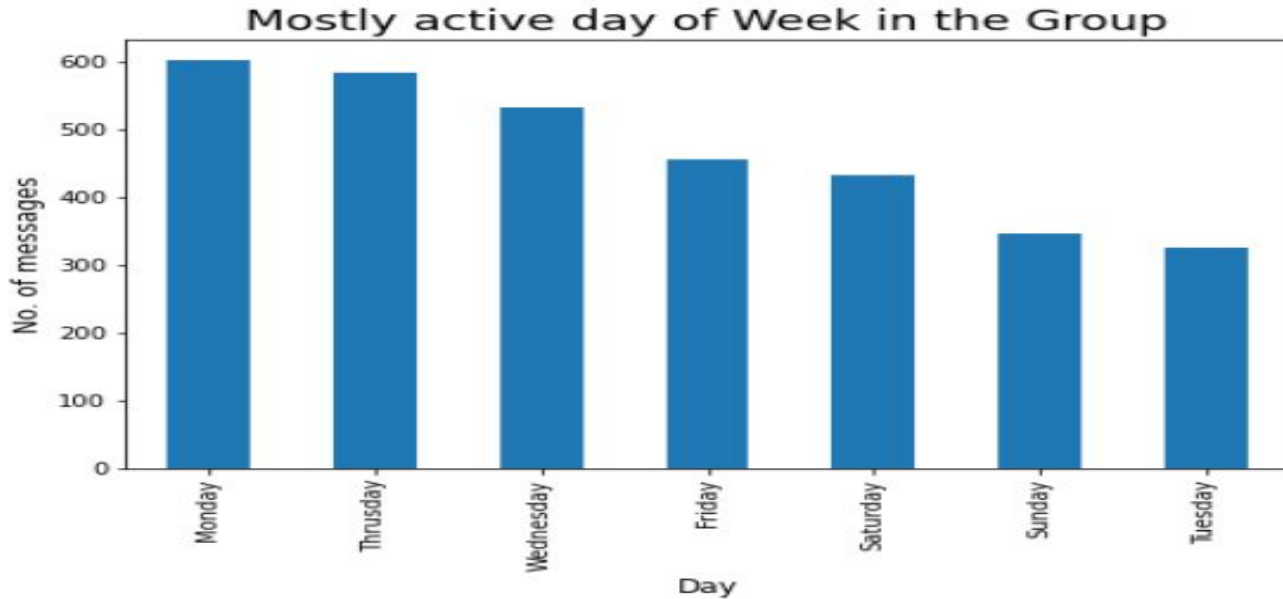1. **Stats of the group chat:**

```
Group Chatting Stats :
Total Number of Messages : 3284
Total Number of Media Messages : 717
```

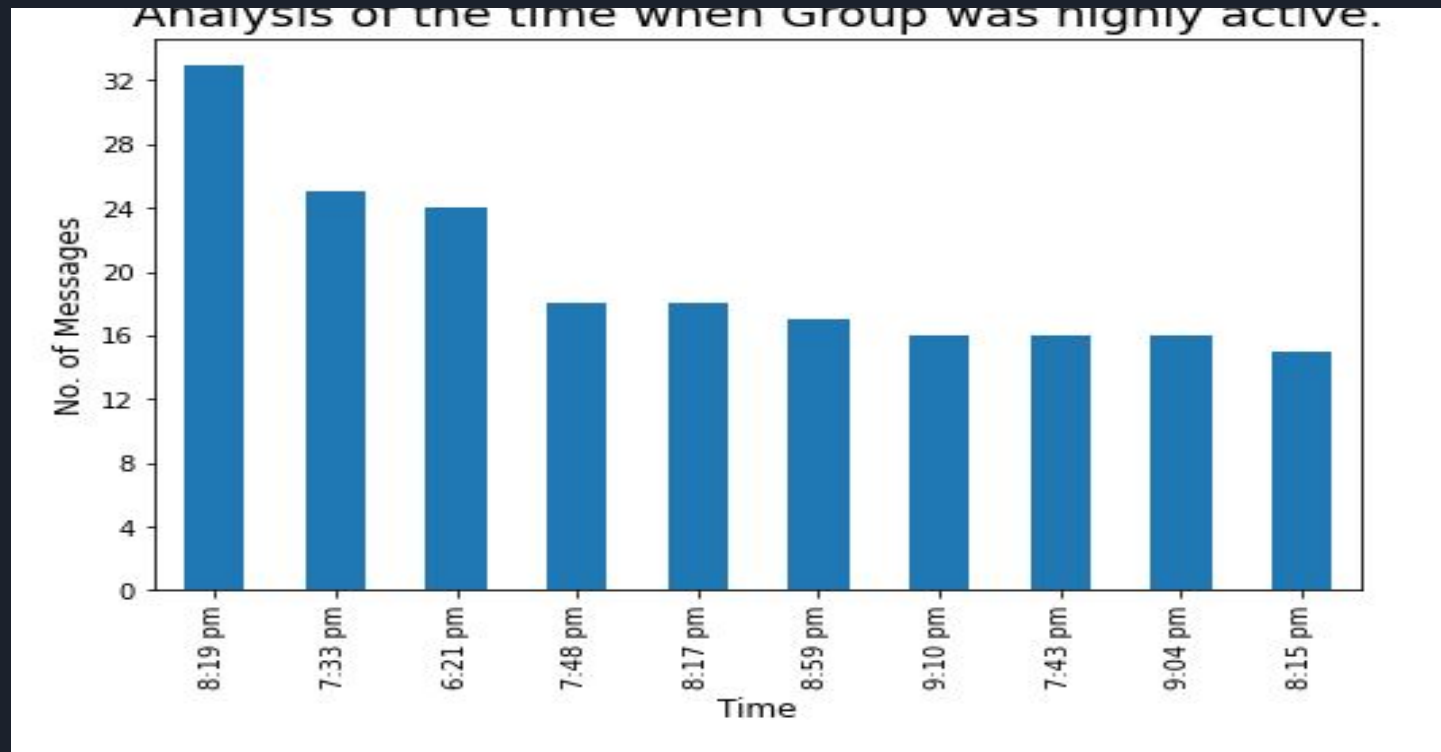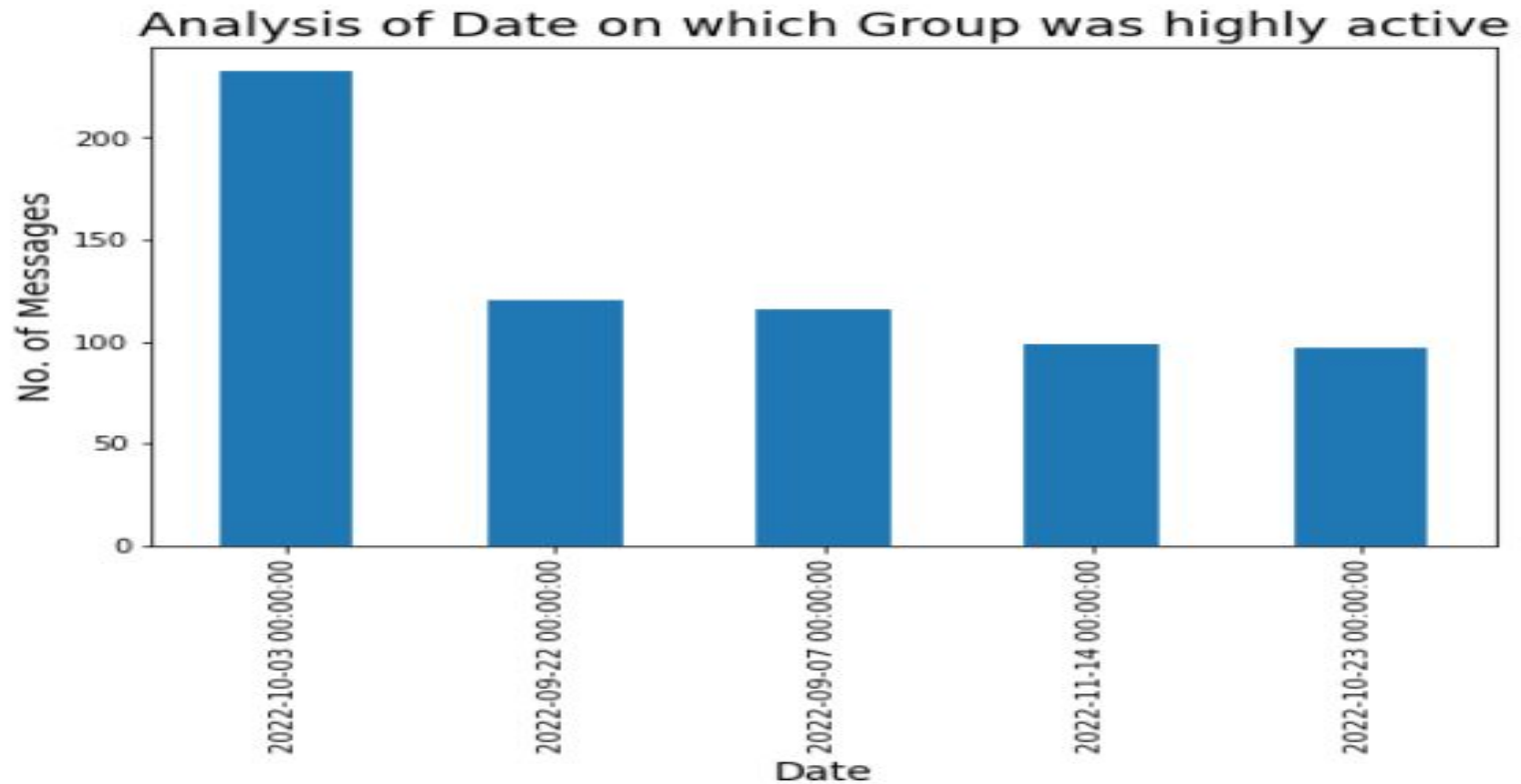# 2. Most Active Member Of The Group:

3. Most Active Day Of Week In Group:

4.Analysis Of Time When The Group Was Highly Active:

Analysis of the time when Group was highly active.

5.Analysis Of Date When The Group Was Highly Active:

Conclusion:

➢ We get to know who is more active in the group, and which day the group is more active
➢ Depending on that we can take decisions.