

# FINAL YEAR PROJECT

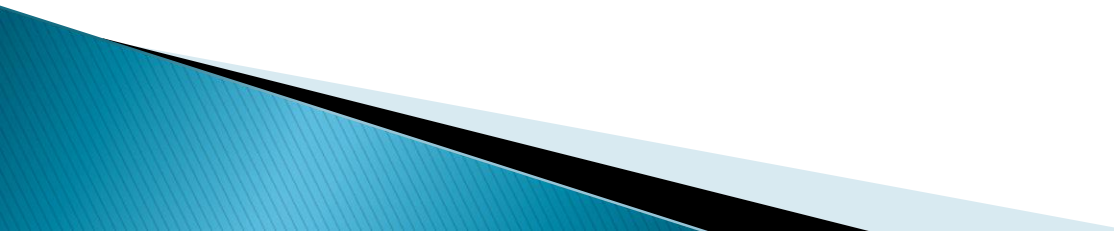
## Social Network Analysis

Mohammed Allama Hossain : B-88  
Rashika Daga: B-123

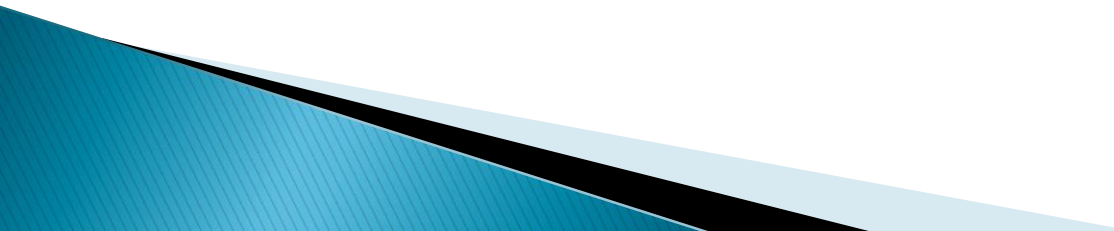
# Present Work

- ▶ Data mining from Facebook Page, Kolkata Traffic Police, an official Page maintained by Police Department
- ▶ Data Extraction– Rfacebook Package in R
- ▶ Data Collected:
  - ❑ Page Owner Posts from November 2016 to November 2017
  - ❑ Comments on the posts

# Objective

- ▶ Converting Unstructured Data to Structured Data
  - ▶ Summarizing the results to make it beneficial for the page owner(Kolkata Police Dept.) and users
  - ▶ User Engagement Statistics
  - ▶ Visualization of information
  - ▶ Sentiment Analysis
  - ▶ Topic Extraction
- 

# Work Done

- ▶ Algorithm developed to find traffic locations per month
  - ▶ Top 100 Words generated from comments
  - ▶ Correlation Index between words in comments
  - ▶ Sentiment Analysis on posts on a weekly basis
  - ▶ User engagement Statistics:
    - Average no. of posts per day
    - Likes, comments and shares on posts per month
    - Frequency of posts (Weekend and weekdays)
    - Popular post type (video, status, link, photo)
- 

# Next Steps

- ▶ Work on the “Finding out Traffic Locations” Algorithm to increase accuracy
  - ▶ Month wise Sentiment Analysis
  - ▶ Find out traffic location data along with time on which the updates happen
  - ▶ Find out the dependence of external factors like procession on Traffic in Kolkata
- 