**TWITTER SENTIMENTAL ANALYSIS**

* Accept query, start and end date from user.
* Load the Data and Authenticate to Twitter (Using API credentials,SNSCRAPE)
* Extract and Analyze the Data
  + 1. Create a Data Frame of Tweets, Data and clean the symbols, hyperlinks, RT’s etc.
    2. Get data’s subjectivity (whether is a fact or an opinion) and Polarity (Differentiate among negative and positive statements). (Using Text Blob Library)
    3. Make a word cloud plot for visualizing how sentiments have been distributed. (Using Word Cloud Library)
    4. Assigning scores to statements (+1 for positive, -1 for negative and 0 for neutral)
* Plotting the polarity and subjectivity using a scatter plot. (Using matplotlib)

**TEXT SUMMARISATION USING NEWS ARTICLES**

* Accept query, start and end date from user.
* Using NewsAPI get the links relevant to the query in the specific timeframe. (Create a list of the links)
* Import the Beautiful Soup Library.
* Pass the links and scrap data from web and store it in an article.
* Preprocess data as done with tweets.
* Tokenizing the articles. (Using NLTK library)
* Find the weighted frequency of occurrence of words.
* Remove the stopwords and creating a dictionary to store relevant words.
* Calculate Sentence Scores and generate summary by using top 10 sentences with the highest score.
* Create a Summary and display it.