

Assignment 08 – Report

I have implemented a program in python named GopiMiyani_Assignment09.py for the purpose of retrieving some data from the Twitter API, and do some processing of on that data. User can run this program with command: `python3 GopiMiyani_Assignment09.py --search_term1 mysearch1 --search_term2 mysearch2 --search_max mymaxresults` where in place of search_term1 and search_term2, user has to specify two search keywords to do a Twitter search and instead of mymaxresults, user need to specify total number of maximum results that he/she wants to get for each search terms. The output of program will be the results of data processing on searched data, which contains overall sentiment analysis for each subject term and also the comparison of the positive/negative sentiment of tweets about two different subjects with illustrating all as diagrams.

The logic of the program is divided into two parts. In first part, it starts with fetching data from Twitter website such as tweet text, user name, location, created date, followers, friends, polarity, subjectivity etc. using Twitter data API, filtering the data using both search keywords one after the another, retrieving total records equal to search_max and finally writing results into csv files.

In second part, data processing is performed. The program reads searched Twitter data from both csv files (each file contains searched data of respective search term) using pandas library and then performs sentiments analysis for individual subject terms and also comparison of sentiments between both subject terms' tweets using textblob and matplotlib libraries. Finally, the program displays the results to user on the output screen in form of diagrams for better visualization.