Tweet Sentiment Analyser Presentation

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Abstract of Project

In this project we try to visualise the sentimental change on twitter on a specific search term. Such as Covid-19, Ukraine War, and Monkey Pox.

User can choose the amount of tweets it wants to run the instance on.

Problem Statement

Visualising the emotional change on twitter on big datasets of tweets without any manual work.

Input & Output Of Project

Input -

1. Search Term Or Hashtag
2. Amount Of Tweets

Output -

1. Pie Chart with (Positive, Negative, and Neutral Sentiment)
2. Pandas Dataset
    a. Tweet Id
    b. Tweet Date & Time
    c. Tweet Content
    d. Tweet Username
    e. Sentiment
    f. Positive Sentiment Value
    g. Negative Sentiment Value
    h. Neutral Sentiment Value
    i. Tweet Month

Input & Output Of Project

Output -

3. Sentiment Analysis By Month

4. Most Positive Tweet

5. Most Negative Tweet

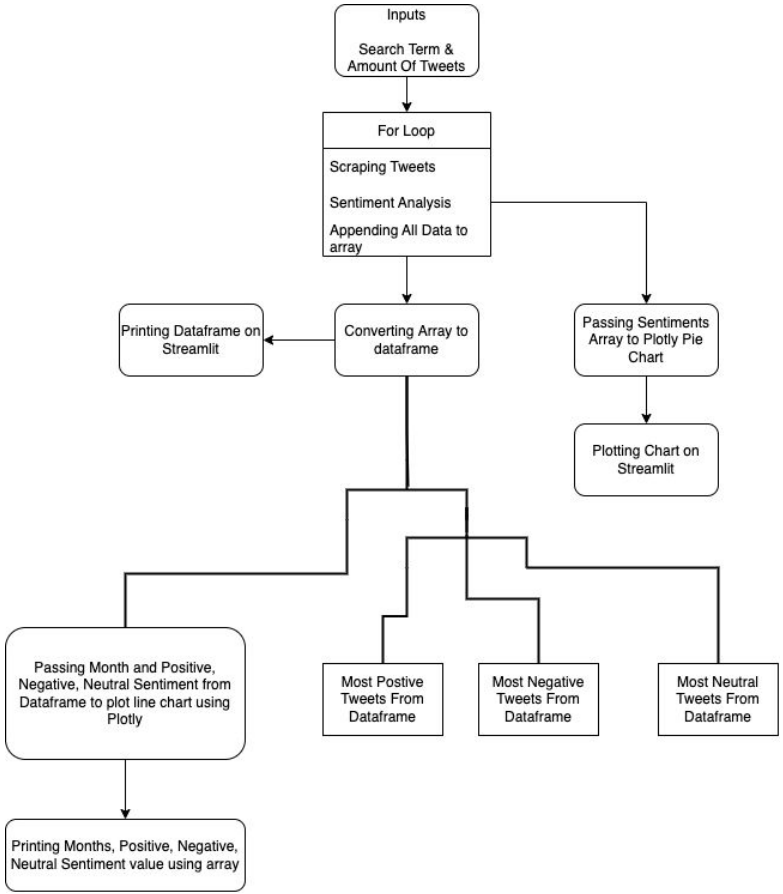
6. Most Neutral Tweet

Description Of Project

This project broadly consists of 5 parts :-

1. SNS scraper module that is used to scrape tweets from twitter.
2. Pandas to convert all the data to dataframe.
3. Vader module to perform sentiment analysis on tweet text.
4. A streamlit web app to host the entire python web app.
5. Plotly module to visualise data efficiently.

Architecture Diagram of Project



Hosting & Development Platform Used

1. Streamlit
2. Github

Programming Languages

Two Programming Languages are used -

1. Python 3

Requirement Of The Project

pandas==1.4.2

pandas_stubs==1.2.0.56

plotly==5.6.0

snscrape

streamlit==1.8.1

vaderSentiment==3.3.2

Project Urls

1. Github code - https://github.com/Ayush-Kumar-Singh/iert
2. Streamlit App - https://share.streamlit.io/ayush-kumar-singh/iert/main/sentiment.py