Tweet Sentiment Analyser Presentation

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Abstract of Project

In this project we first check the current trends. Then we scrape the tweets from those trends and then we perform sentimental analysis on those trends. Finally we plot the result on a 3d graph for better visualisation.

Visualising live data from twitter

Input & Output Of Project

Input -

1. Trends
2. Tweets
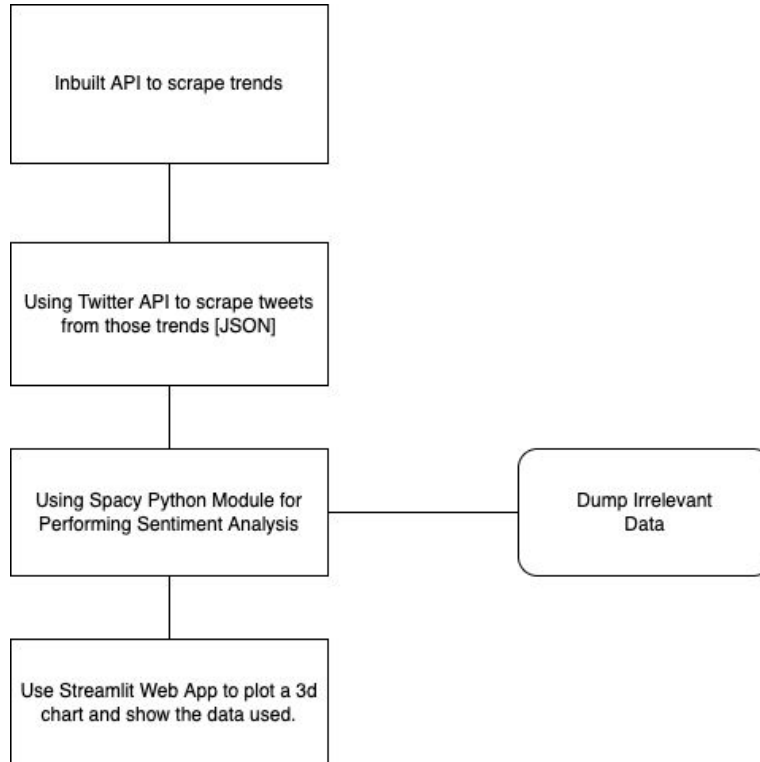3. Sentiment

Output -

1. Subjectivity
2. 3d-visual Graph

Description Of Project

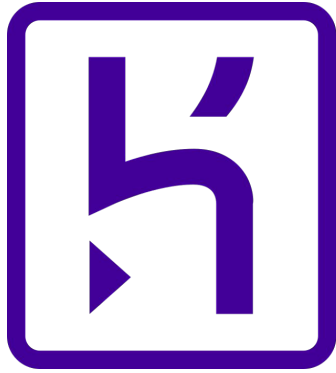This project broadly consists of 4 parts :-

1. An inbuilt api to get twitter trends of 62 countries and 462 towns including WorldWide Trends

2. An php file to get tweets in json format of a certain trend.

3. A spacy python module program to perform sentimental analysis on the text of each tweet.

4. A streamlit web app to show the result in 3d graph using plotly and json data.

Architecture Diagram of Project

```
┌─────────────────────────────────┐
│                                 │
│   Inbuilt API to scrape trends  │
│                                 │
└─────────────────────────────────┘
                 │
┌─────────────────────────────────┐
│                                 │
│  Using Twitter API to scrape tweets │
│   from those trends [JSON]      │
│                                 │
└─────────────────────────────────┘
                 │
┌─────────────────────────────────┐        ╭─────────────────────╮
│                                 │        │                     │
│  Using Spacy Python Module for  │────────│  Dump Irrelevant    │
│  Performing Sentiment Analysis  │        │  Data               │
│                                 │        │                     │
└─────────────────────────────────┘        ╰─────────────────────╯
                 │
┌─────────────────────────────────┐
│                                 │
│  Use Streamlit Web App to plot a 3d │
│  chart and show the data used.  │
│                                 │
└─────────────────────────────────┘
```

1. Heroku

Programming Languages

Two Programming Languages are used -

1. PHP
2. Python

Requirement Of The Project

plotly==5.6.0

spacy==3.2.4

spacytextblob==4.0.0

streamlit==1.8.1

Project Urls

1. API - https://globaltwittertrends.com/rapid-api/
2. JSON Tweets - https://globaltwittertrends.com/peri.json
3. Github code - https://github.com/Ayush-Kumar-Singh/iert
4. Heroku app - https://tweettext.herokuapp.com/