Information Retrieval Project Group 24
README

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Dependencies

- python 3.6+
- pip install tweet-preprocessor
- pip install rank_bm25
- pip install pandas
- pip install tweepy
- pip install numpy
- pip install sklearn
- pip install joblib
- pip install matplotlib
- pip install networkx
- pip install textblob
- pip install nltk
- pip install heapq
- pip install tabulate
- pip install seaborn
- pip install Flask
- pip install virtualenv

How to Deploy and Run Project on Local Machine

The submitted project works on Windows OS as the virtual environment is created on the Windows Machine. To run the code on the different machine, the user needs to create a virtual environment using the command: "**virtualenv env**", where **env** is the name of the virtual environment.

After having the virtual environment created, the user needs to activate it using the command (for Windows): "**source env/Scripts/activate**" (for Ubuntu/MacOS): "**source env/bin/activate**".

After activating the virtual environment, the user needs to install the Python libraries in the virtual environment.

The Python libraries are:

- pandas
- joblib
- tweepy
- textblob
- sklearn

After that, the user needs to run the **app.py** file using the command: "**python app.py**". Before running the **app.py** file, make sure that port **5000** is available on the machine as the current code runs on port **5000**.

Required Joblib and Pickle Files

- the_tweets_dataframe
- hashtags
- betweeness_centrality
- degree_centrality
- fullyannotated.pkl

How to Use the Web Interface

When the user runs the **app.py** file, he/she can find the web interface running on localhost with port **5000** by simply typing **127.0.0.1:5000** on the web-browser. The user will see the page mentioned in the Figure - 1.
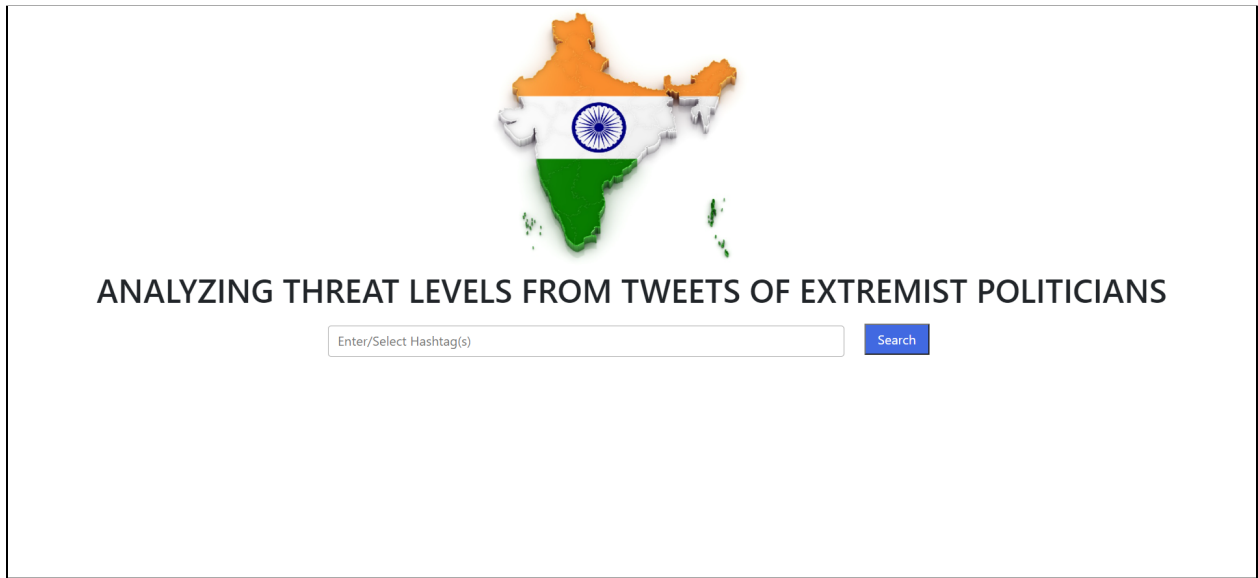
Figure - 1

Here, the user can select any number of hashtags available in the dropdown menu and after selecting them, the application will redirect the user to another page containing the output table of Username with their Ranks (calculated by the Custom Ranking Algorithm). For example,
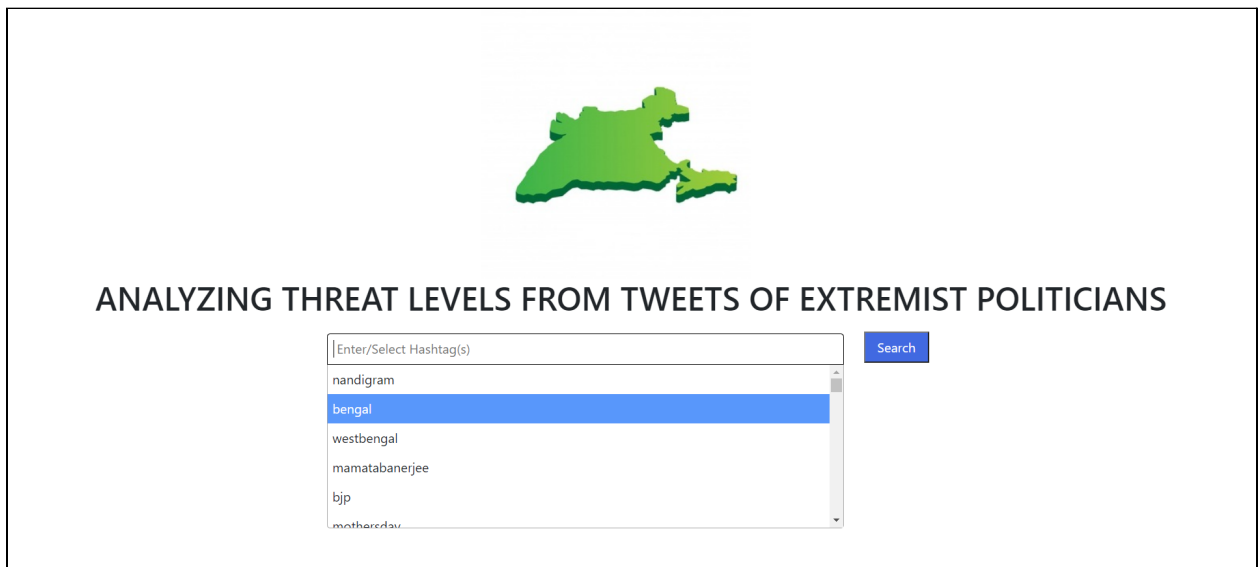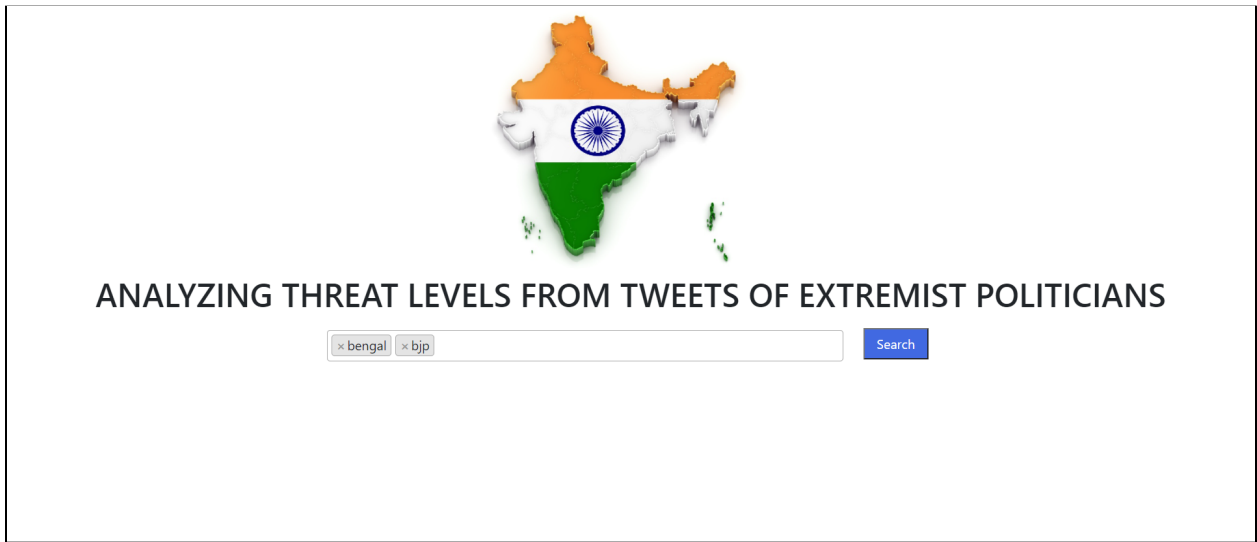

Figure - 2

Figure - 3