

SRS – Software Requirement Specification

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Project - Tweet Sentiment Analyser

Category - Social Media Artificial intelligence (AI)

Purpose

The purpose of the tweet sentiment analyser is to figure out the sentiment of an entire Twitter trend. This is achieved by this project by performing a sentimental analysis on the tweets of a specific trend.

Scope

This project comes very useful in visualizing the entire sentiment of Twitter trends. Using this visualization one can take appropriate measures to stop the hate campaigns on social media platforms.

Proposed System

Tweet Sentiment Analyser is used to predict the sentiment of each tweet posted in a trend. This tweet now has a number between 0.0 and 1.0 where 0.0 responds to the negative sentiment whereas 1.0 responds to positive sentiment. Due to this, it is able to predict what types of sentiments and in what percentage those sentiments are emerging.

Advantages of the System

- Faster Prediction of sentiment for an entire trend.
- Scalable to check the sentiment of all trends happening worldwide.
- 3d Graph for visualizing the entire trend.
- The sentiment is presented as a number that can be used to further filter content for an audience.

Requirements

- Twitter API credentials
- PHP 7.0 or above
- Python 3.0 or above
- All the modules in [requirements.txt](#)

Tools Used

- **Programming Languages** - PHP, Python
- **Python Modules** - Spacy, plotly, streamlit
- **API** - Twitter API, Inbuilt Global Twitter Trends API
- **Deployment** - Heroku

Tweet Sentiment Analyser SRS