

Tic Tech Toe '20 Devfolio Phase - 1 (Ideation Phase)

Problem Statement

Analysed tweets or posts on social media of famous EdTech companies like WhitehatJr, Byju's etc. Make a dashboard for that which contains the sentiments of tweets or posts. Add features like time-by-time analysis, best positive and negative tweets or posts, Region-wise analysis, Age-wise analysis. More analysed and better-presented data, more chances to win!! → extract the data using APIs → filter and do an analysis on it. → present the whole data on the dashboard in the proper visualised form → at the end, come up with conclusive sentiment analysis.

Description of the Theme/Idea (Solution to the Problem)

Approaching the problem with a solution where, a model will be trained as to analyze the tweets in categories such as Positive, Negative or Neutral. Now, this solution will read several tweets from the CSV where all the sample tweets will be stored and these can be read one by one with a response as Positive, Negative or Neutral. This can be first implemented with a simple solution and later converted to a GUI-based project if required. So, the solution would be a program that is capable of classifying lines of text in the categories mentioned above.

Using different Python Clients & Libraries such as Tweepy, which is the python client for the official Twitter API and Textblob for processing textual data. Fetching of the tweets can be done through Twitter API and for that, keys and access tokens might be needed. Then the implementation can be done for sentiment analysis through a Python program which will give the output of a tweet as Positive, Negative or Neutral. Making GET requests to Twitter API to fetch tweets for a particular query. Then, the parsing of the tweets can be done for further classifying them for the sentimental analysis.