

PROJECT SCOPE STATEMENT

PROJECT NAME - Sentiment Analysis of COVID-19 Tweets and Visualization Dashboard

PROJECT SCOPE DESCRIPTION - The extraction of tweets related to COVID-19 written in the English language is within the scope of this project. The tweets can be made free from various punctuations, stop words and URLs using the python libraries.

The collection of tweets is not only of India but worldwide. The tweets made by Indians cannot be scrapped because of the different ways in which people describe their location on Twitter and some prefer not to disclose their location. Tweets of languages other than English are also out of the scope of the project.

PROJECT DELIVERABLES - After the completion of the project, we will be able to get a sentiment analysis model designed using the 'nltk' library and a sentiment predictor model designed using the 'Random Forest' classifier. Also, a User Interface (Visualization Dashboard) designed using Flask will be available to the user to view all the results predicted by the model.

PROJECT ACCEPTANCE CRITERIA - The project will be accepted if the model is able to predict the correct sentiments involved with the tweets and if the user is able to understand the results of the model using the visualization dashboard.

PROJECT CONSTRAINTS - The constraints which can affect the project functioning are the days for which tweets are collected and the number of tweets taken into

consideration for the analysis. If the number of tweets are increased or decreased or if the tweets are collected for the past few months, then the sentiment predicted for the majority may differ.

PROJECT ASSUMPTIONS - The assumptions on which the project is being made are that all the tweets are written with genuine sentiments. There has been no masking of the sentiments while making tweets.