Sentiment Analysis of Covid19 Tweets

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Overview

The purpose of this project is the sentiment analysis of Indians after the extension of lockdown announcements to be analyzed with the relevant #tags on twitter and build a sentiment analytics model which can analyse tweets. This will help us understand what the Indians are feeling over lockdown conditions and also what is their general sentiment over Covid19.

Purpose

Covid19 has put the entire world in turmoil. Governments all around the world are employing various methods to keep the situation under control. The situation poses various risks and difficulties which the people have to face in the face of this difficulty. The plight of the common man should not go unnoticed. So, analysing data from social networks about this topic will help us understand what everyone's thinking and going through. This will help governments and governing bodies understand the situation and their citizens' plight and take measures accordingly. Hence, analysing the sentiments and emotions of people can help provide an insight into how a particular decision will influence the public. This will also help avoid the decline of mental health of people due to stress and help overcome their anxieties. Now, the question arises how do we find out what the people are actually thinking and feeling? Well this is easily doable as today almost everyone is on social networks where they share their thoughts hence, we can use this data to analyze their sentiments. For this project we will be using Twitter data.

Existing Problem

There exists a growing concern as due to lockdowns there is a gap between the people and government. The Covid19 Pandemic has made it difficult for people to convey

their thoughts and problems with the government. This has made it increasingly difficult for the government to understand what the people are going through.

Sentiment Analysis will help the government understand what the people are going through and what is it that they need. This will help people feel like their problems are being heard and that they are not alone.

Proposed Solution

We intend to make use of various IBM cloud resources to create this project. Primarily among these are Node Red and IBM watson Tone Analyzer.

On the frontend of our application the user can enter any text which needs to be analyzed; this will then be passed on to the IBM Watson Tone Analyzer which provides us with the score for the text. This score will then be analyzed by us and a relevant sentiment will be output to the user.

We have made use of emojis to convey the sentiment to the user. This makes it easily understandable the sentiment that the text conveys. In this way we have made a solution which is easy to use and whose output is understandable at a glance.

Applications

This project helps us analyse the sentiments of text and can be used for any type of text not only twitter text. The project helps to analyse what sentiment the text conveys and it also classifies text based on its tone.

It displays a helpful emoji which succinctly and easily portrays what the sentiment of the text and hence is easily understandable.