

Sentiment Analysis of COVID-19 Tweets – Visualization Dashboard



Contributors:

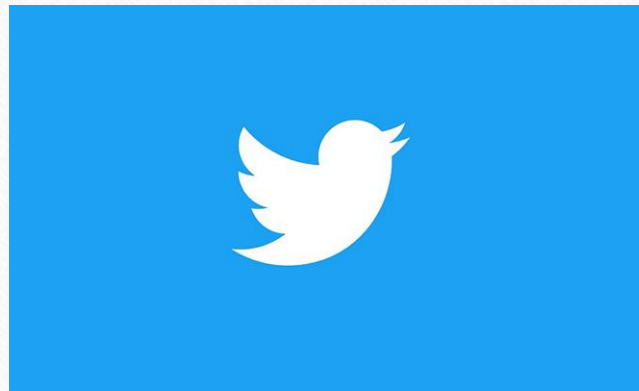
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PROBLEM STATEMENT

The sentiment analysis of Indians after the extension of lockdown announcements to be analyzed with the relevant #tags on twitter and build a predictive analytics model to understand the behavior of people if the lockdown is further extended.

Also develop a dashboard with visualization of people reaction to the govt announcements on lockdown extension



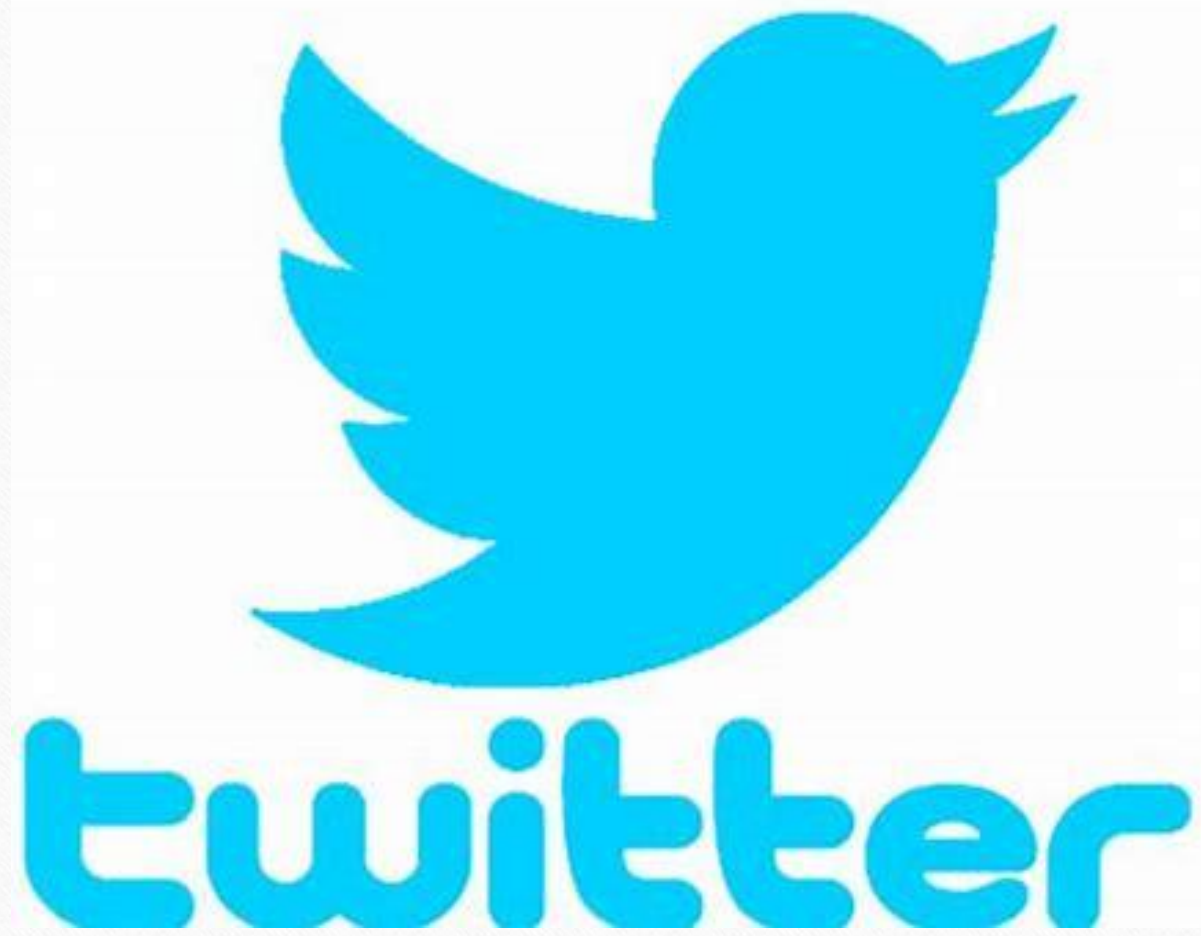
SENTIMENTAL ANALYSIS

What is sentiment analysis?

Sentiment Analysis is the process of 'computationally' determining whether a piece of writing is positive, negative or neutral. It's also known as **opinion mining**, deriving the opinion or attitude of a speaker.

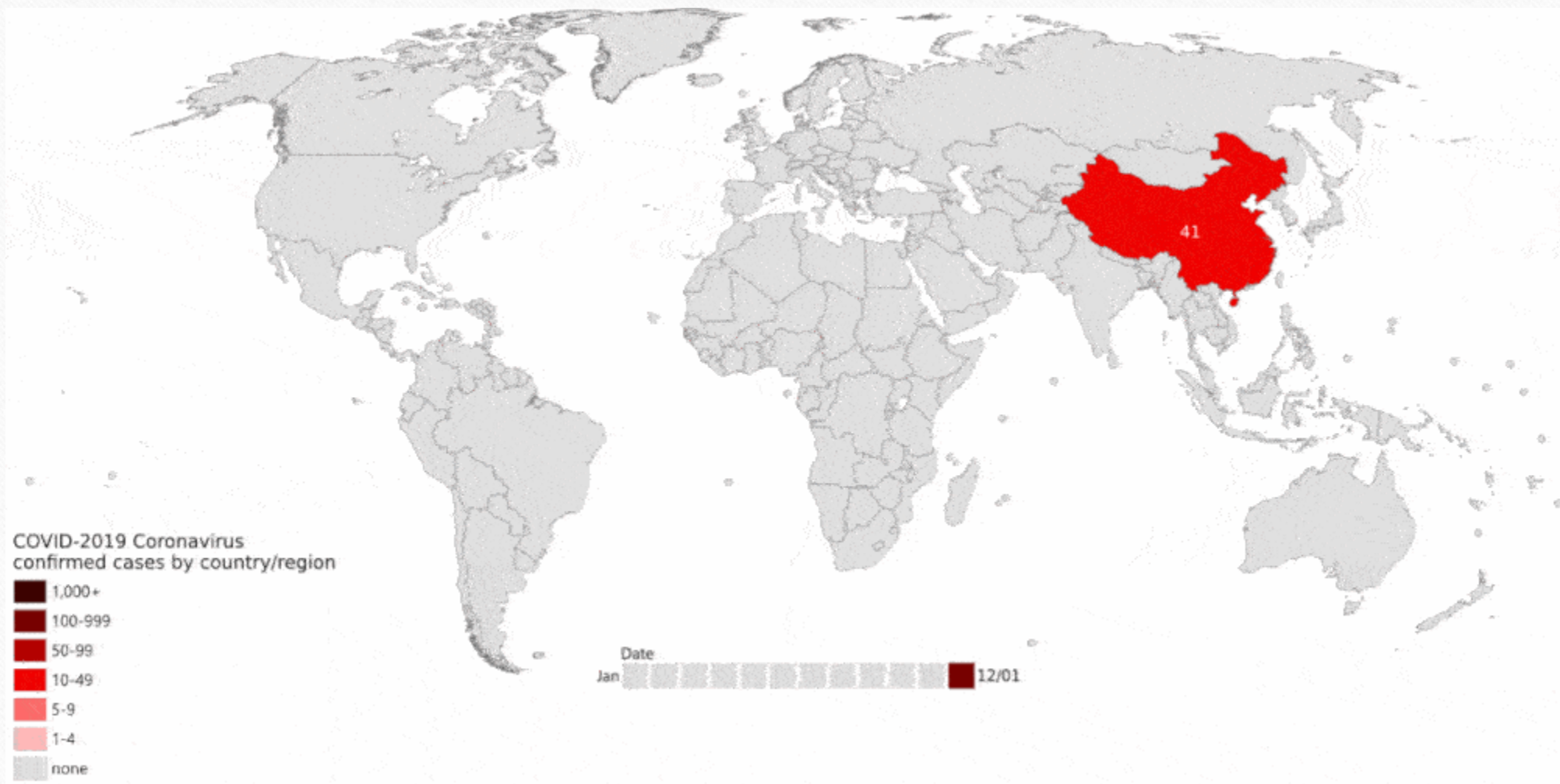
Why sentiment analysis?

- Business:** In marketing field companies use it to develop their strategies, to understand customers' feelings towards products or brand, how people respond to their campaigns or product launches and why consumers don't buy some products.
- Politics:** In political field, it is used to keep track of political view, to detect consistency and inconsistency between statements and actions at the government level. It can be used to predict election results as well!
- Public Actions:** Sentiment analysis also is used to monitor and analyse social phenomena, for the spotting of potentially dangerous situations and determining the general mood of the blogosphere.



WHY TWITTER ?

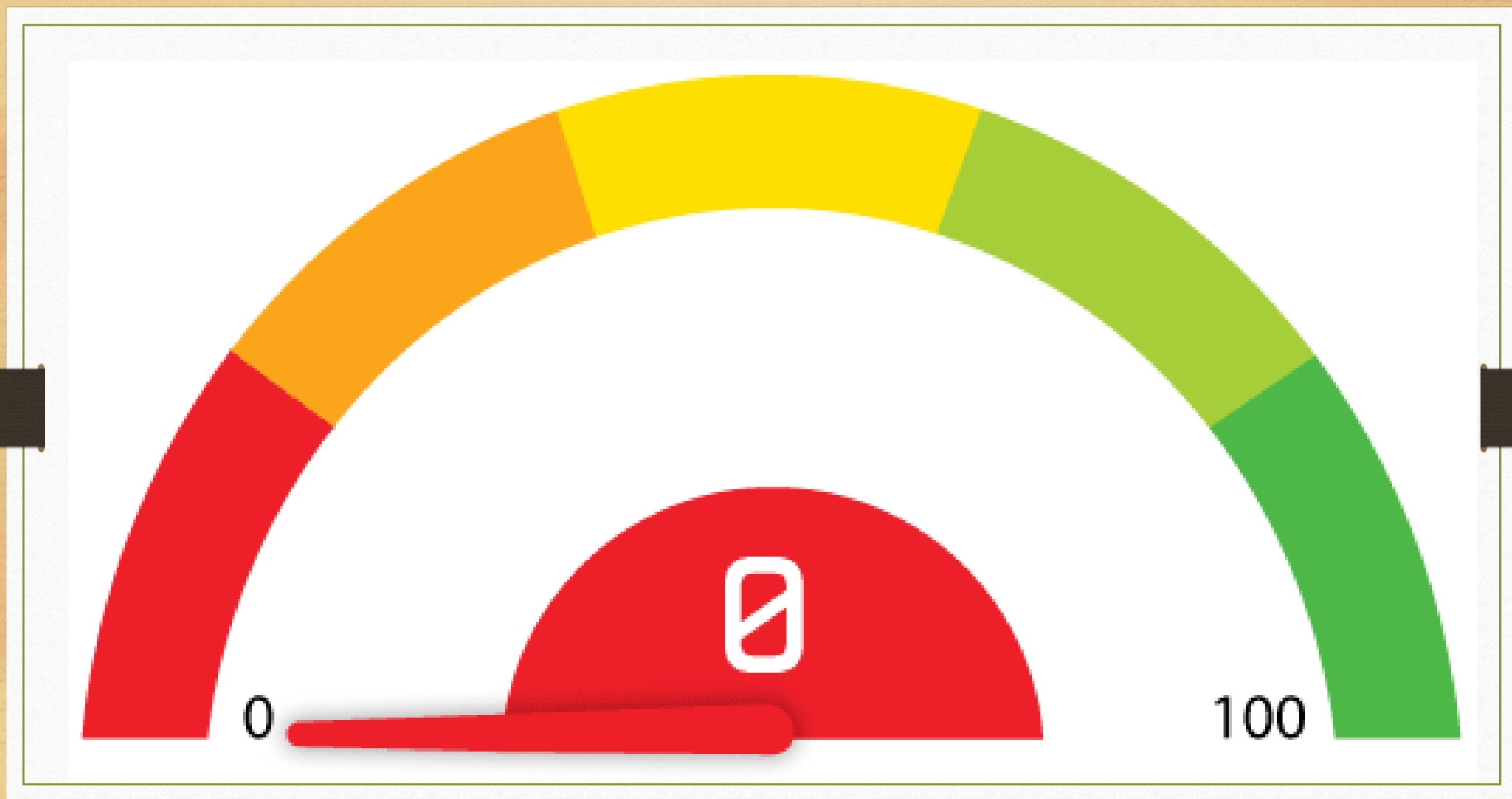
Twitter is an online social network with over 330 million active monthly users as of February 2018. Users on twitter create short messages called tweets to be shared with other twitter users who interact by retweeting and responding. Twitter employs a message size restriction of 280 characters or less which forces the users to stay focused on the message they wish to disseminate. This very characteristic makes messages on twitter very good candidates for the Machine Learning (ML) task of sentiment analysis. Sentiment Analysis falls under Natural Language Processing (NLP) which is a branch of ML that deals with how computers process and analyze human language.



At such a crucial time when world is fighting from a pandemic there is need for this project to analyze and know public interests

SOLUTION

- GOING TO COMPUTE TWITTER TWEET AND ANALYSE THE SENTIMENTS USING PYTHON
- CREATING VISUALISING DASHBOARD SHOWING THE SENTIMENTS OF COVID RELATED TWEETS VIA WEBSITE.



SENTIMETER

We are creating a model which analyze the sentiments of people towards the covid-19 tweets. In this model we will be creating a visualization dashboards which contains the CSV files containing all the tweets in a specific style like in form of cards. On visiting the cards the user will have the option to read the tweets or to visually see the reaction towards covid - 19 and analyzing visual reaction will be shown in the form of meter which has various scales depicting the emotions and regarding the tweets also visiting the dash both the user has the option to browse a particular announcements or treat initially the dashboard will have all types of tweets and they can be sorted as per the user requirements.

Various emotions can be analyzed using this meter.



OUTPUT

- The outputs can be in form of sentiment, bar graph, pie chart or data statistics user can use the desired display mode.
- User can also view the data tweets under desired sentiments.