

Sentiment Analysis Of COVID-19 Tweets

Visualization Dashboard

Introduction:

- **Overview and purpose:**

The Corona Virus endangers our physical health indeed, but alongside, social distancing also poses a threat to our emotional stability. Thus, it is crucial to understand public sentiments under COVID-19. To study public sentiments, tweets from twitter is best. As it is one of the world's biggest social network platforms, Twitter hosts abundant user-generated posts, which closely reflect the public's reactions towards this pandemic with low latency.

Twitter is not only a place for people to respond to others' tweets but also a platform to post your tweets and share your feelings. Thus, besides likes/replies/retweets, we will extract the content of COVID-19 related tweets to see how people's feelings and expressions changed over time.

Literature Survey:

- **Existing Problem:**

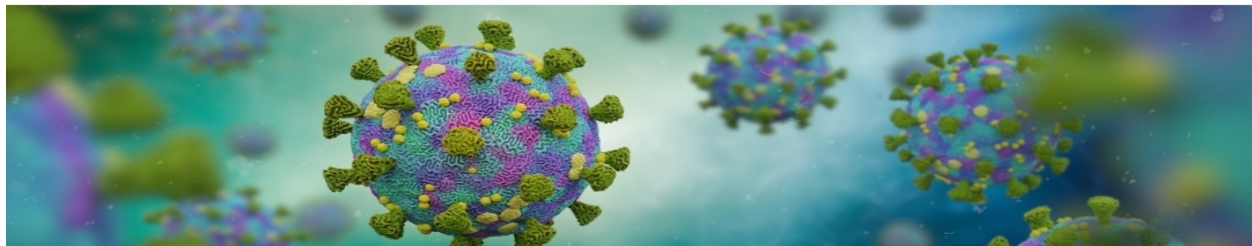
Due to COVID-19 and LOCKDOWN lots of people are facing difficult situations. Many people are facing mental health issues, poor people have problem of scarcity of food shelter, Those people who were depended on daily work for 2 time food are now facing extreme condition due to lockdown. Asking people about their problems, getting their views on current situation will be beneficial to help them. Sentimental analysis will help government to understand what most of the people are going through.

● Proposed Solution:

Interactive and user friendly visualization dashboard of most tweeted words during pandemic, languages of tweets, countries with most tweets, reaction of people about pandemic and extension of lockdown. Also, Dashboard contain latest updates of total number of cases, number of recovered patients, number of deaths in different states/UT of India as well as world wide data.

Along with visualization to create awareness among the people we included videos, posts and as we know lots of myths are spreading faster than corona itself so we have included MythBusters section to our dashboard to clear misconceptions among people. FAQ section to solve common doubts.

Results:



301609
Active
Cases

553470
Cured /
Discharg

23174
Deaths

1 Migrated

Last Updated as on : 13 July 2020, 08:00 IST (GMT+5:30)

Live Tweets from Twitter

<https://t.co/aKa9W9ASWA> #corona #graischaftbentheim #nordhorn

RT @PaulMBanks: Entertainment Industry Struggles Amid #pandemic are Complicated ("Despondent Day Trader" the Featured Image of course!!!)...

RT @jeasbe: #Faridabad #CovidRecovered Need #Blood Type : A+ At : Metro



Neutral 52.0% Positive 40.0% Negative 8.0%

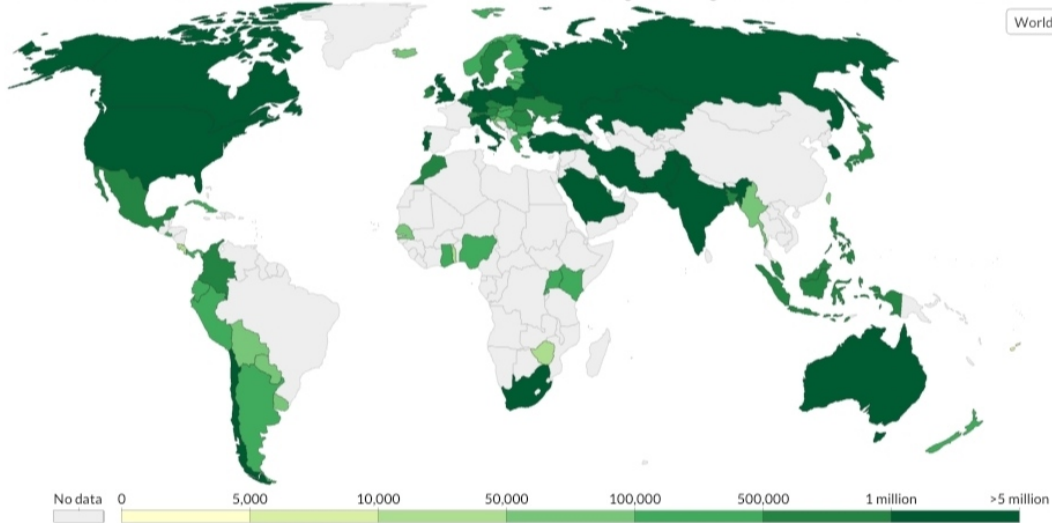
Total COVID-19 tests, confirmed cases and deaths

Total COVID-19 tests, confirmed cases and deaths, Jul 11, 2020

The confirmed counts shown here are lower than the total counts. The main reason for this is limited testing and challenges in the attribution of the cause of death.

Our World
in Data

World



Source: Official data collated by Our World in Data; European CDC - Situation Update Worldwide

OurWorldInData.org/coronavirus • CC BY

Jan 1, 2020

Jul 11, 2020

CHART

MAP

TABLE

SOURCES

DOWNLOAD



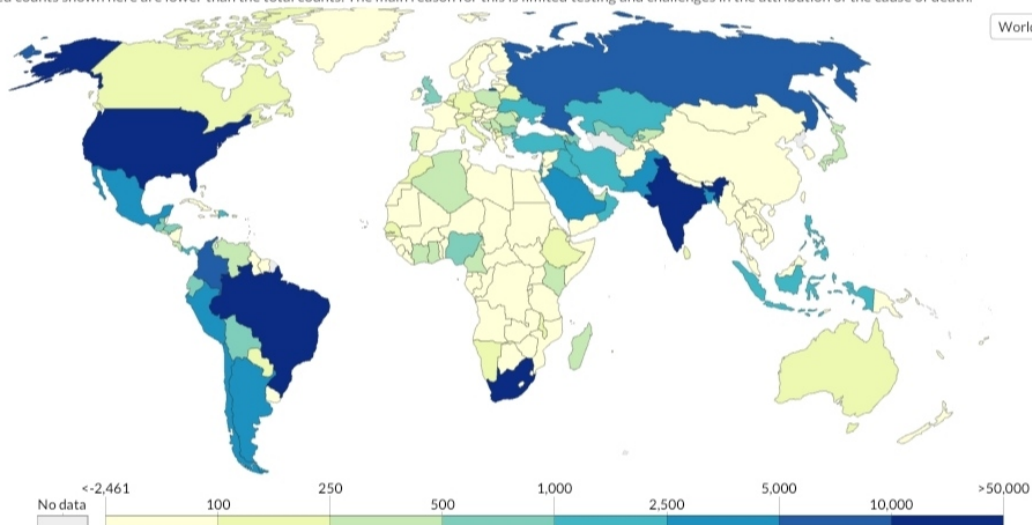
Daily confirmed cases and deaths

Daily confirmed COVID-19 cases and deaths, Jul 13, 2020

The confirmed counts shown here are lower than the total counts. The main reason for this is limited testing and challenges in the attribution of the cause of death.

Our World
in Data

World



Source: European CDC - Situation Update Worldwide - Last updated 13 July, 10:40 (London time)

OurWorldInData.org/coronavirus • CC BY

Dec 31, 2019

Jul 13, 2020

Advantages:

Sentiment analysis is a useful tool for any organization or group for which public sentiment or attitude towards them is important for their success - whichever way that success is defined.

On social media, blogs, and online forums millions of people are busily discussing and reviewing businesses, companies, and organizations. And those opinions are being 'listened to' and analysed.

The results from sentiment analysis help businesses understand the conversations and discussions taking place about them, and helps them react and take action accordingly.

They can quickly identify any negative sentiments being expressed, and turn poor customer experiences into very good ones.

Disadvantages:

computer programs have problems recognizing things like sarcasm and irony, negations, jokes, and exaggerations - the sorts of things a person would have little trouble identifying. And failing to recognize these can skew the results.

'Disappointed' may be classified as a negative word for the purposes of sentiment analysis, but within the phrase "I wasn't disappointed", it should be classified as positive.

With short sentences and pieces of text, for example like those you find on Twitter especially, and sometimes on Facebook, there might not be enough context for a reliable sentiment analysis. However, in general, Twitter has a reputation for being a good source of information for sentiment analysis, and with the new increased word count for tweets it's likely it will become even more useful.

Application:

Sentiment Analysis has a number of applications:

- **Business:**

Companies use Twitter Sentiment Analysis to develop their business strategies, to assess customers' feelings towards products or brand, how people respond to their campaigns or product launches and also why consumers are not buying certain products.

- **Politics:**

In politics Sentiment Analysis Dataset Twitter is used to keep track of political views, to detect consistency and inconsistency between statements and actions at the government level.

- **Public Actions:**

Twitter Sentiment Analysis also is used for monitoring and analyzing social phenomena, for predicting potentially dangerous situations.

Conclusion:

so, we have developed an interactive, user friendly informative visualization dashboard for sentimental analysis of covid-tweets from twitter also we have added awareness related content in our website.

