

Twitter Sentiment Analysis Dashboard for COVID-19

Team Name : Enigma 4.0

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Introduction

- **Overview:**

As we all know we are facing a global pandemic whose graph is just increasing day by day due to which feelings like fear ,disgust ,etc are increasing these days and during this when lockdown is extended these negative sentiments came to a boost . So we to understand sentiment of people in India during dealing with COVID -19 and extension of lockdown.

In the past two decades, the growth of social data on the web has rapidly increased. This leads to researchers to access the data and information for many academic research and commercial uses. Social data on the web contains many real life events that occurred in daily life, today the global COVID-19 disease is spread worldwide. Many individuals including media organizations and government agencies are presenting the latest news and opinions regarding the coronavirus.

- **Purpose:**

Our UI will show the sentiment analysis in India based on relevant keywords and #tags which will be differentiated in different types like Positive,Negative and Neutral. This will be helpful to understand sentiments in India towards lockdown and helpful for predicting further extension of lockdown.Also to understand all aspects of effect of COVID-19 in India as well as other countries.

Literature Survey

- **Existing Problem :**

As per the scenario, We all know the the COVID-19 infected people are increasing day by day so the probability of extension of lockdown is much more but we cannot predict how people will react on the extension of lockdown ,what will be the ratio of negativity , positivity, fear, trust, satisfaction, etc. Due to which we don't have any idea about people reaction on extension of lockdown. On 25th March 2020, the government of India announced a complete lockdown of the nation and that means closing of each and every public gathering and public movement activities. Lockdown period has been extended over and over again in order to avoid public gatherings and thus regulating the transmission of coronavirus. 2 months since lockdown has begun, people have mixed reactions on this. Some are angry and some are happy. We have to build a dashboard that will show us what are the reactions of people using twitter tweets on one page using the IBM cloud application.

- **Proposed Solution:**

In order to understand people sentiment towards Covid-19 and extension of lockdown we need to choose a social media platform which will be Twitter, that will help us to gather reaction and opinions toward Covid-19, corona and lockdown. We will be collecting all the tweets from twitter using specific #tags and keywords . Further Sentiment analysis will be performed on our gathered data and the results will be shown in relevant form on our UI.

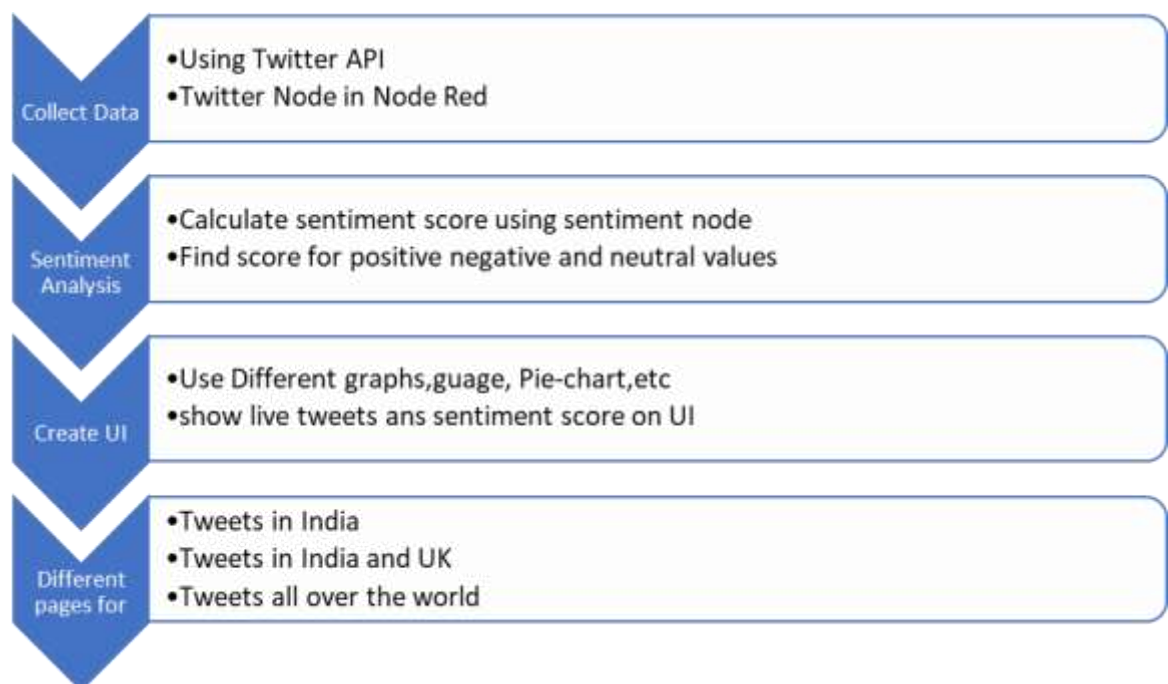
UI will be built using Node-Red which will collect tweets, based on the tags and keywords people use and to display our results on sentiment analysis, behaviour of people consisting of different graphs, pie-charts, etc and a dashboard displaying results

on prediction of lockdown extension, Graph, bars ,pie-chart,maps and major tweets .

This UI will consist sentiment analysis of tweets in India about lockdown ,also we will compare it with some other countries including maps to locate the tweet location

Theoretical Analysis

- Block Diagram:



- **Software/Hardware Design :**

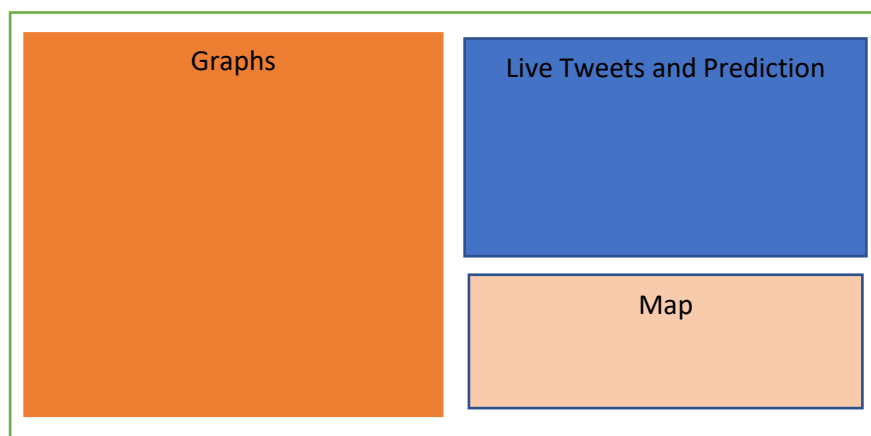
UI will consist of Following tabs:

- Tweet Scoreboard
- Comparison between India and US
- Compare Tweets
- Analyse tweets of specific topics
- Analyse text / Sentence
- Lockdown Top Tweets

1. Tweet Scoreboard :

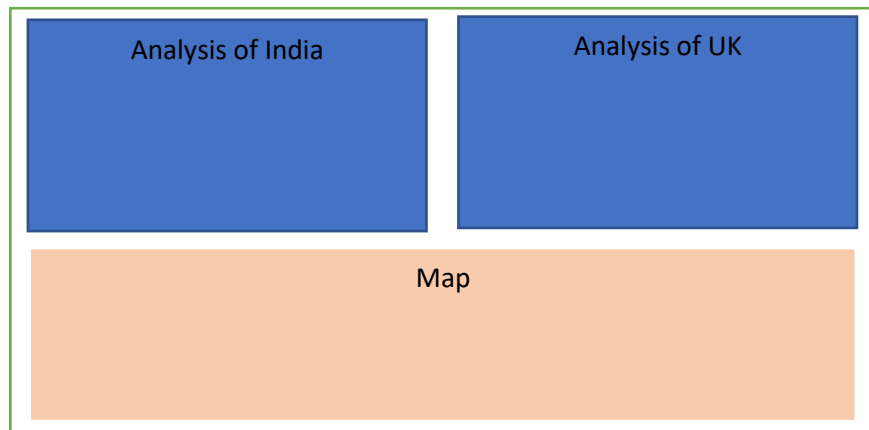
It will consist of a graph named tweet sentiment history which will display a line graph plotting sentiment analysis values
And the second graph will be plotting the sentiment analysis value but with two different lines one representing positive and other negative values.

Also other parts will be prediction about lockdown, live tweets and location of those tweets.



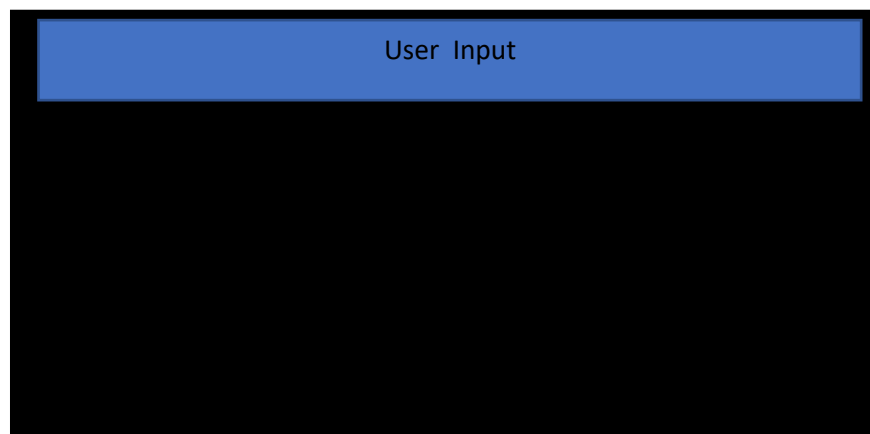
2. Comparison between India And US :

The content will be the same as tweet scoreboard page but their will be two columns one consisting Data regarding India and other About US .



3. Top lockdown Tweets:

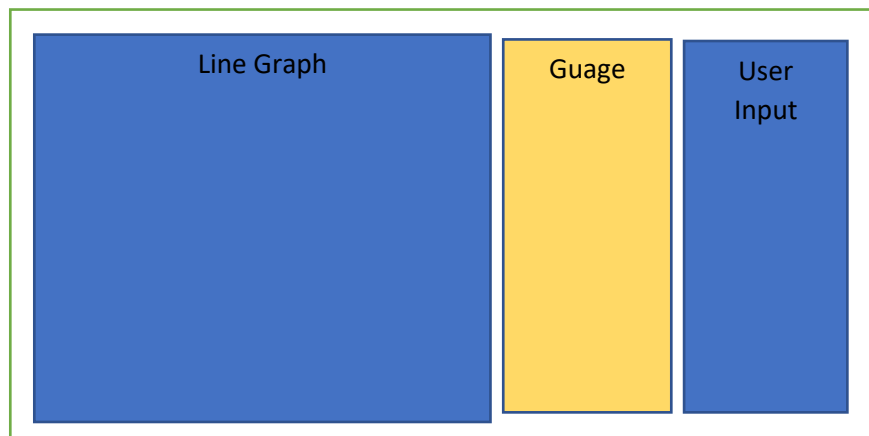
This page will display the tweets with top positive and negative sentiment analysis score regarding lockdown also user will be given an input option for searching tweets of topics other than lockdown.



4. Compare Tweets :

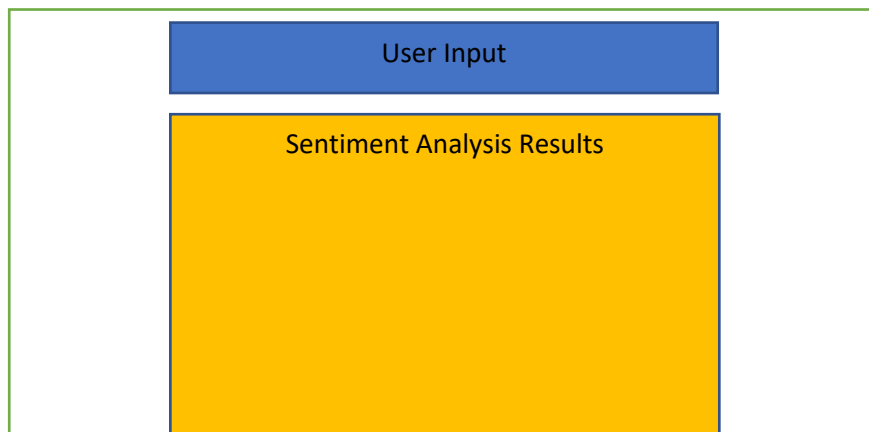
Here user can enter any 2 keywords or hashtags as input and we will be displaying a graph which will be consisting 2 lines of

sentiment analysis of that 2 terms respectively so that user can compare sentiments of people regarding those topics . This can be used to compare two situations, things, places, emotions, etc.



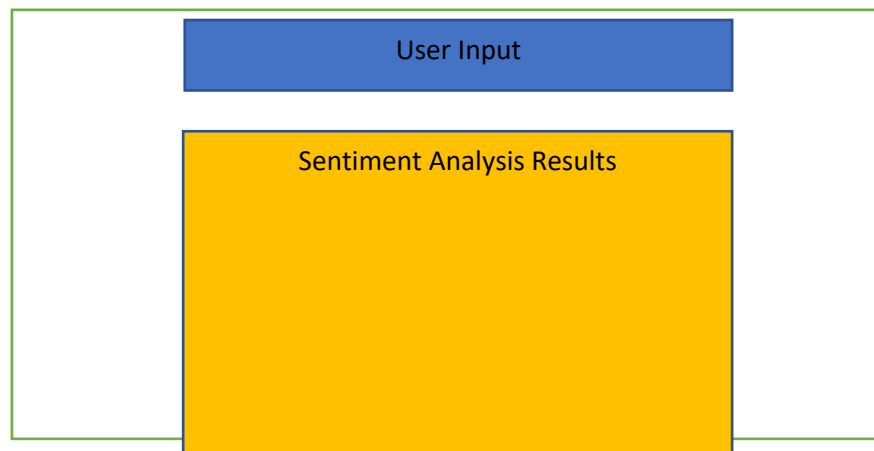
5. Analyse Tweets of specific topics :

User can enter any keyword and this page will display tweets regarding that topic , a guage displaying sentiment score of each tweets and a graph displaying sentiment score w.r.t. time.



6. Analyse Text / Sentence :

User can enter any word, Sentence or paragraph and the page will display A guage showing Sentiment score of whole word, sentence or paragraph and a graph showing sentiment score w.r.t. each word of input.



Experimental Investigation

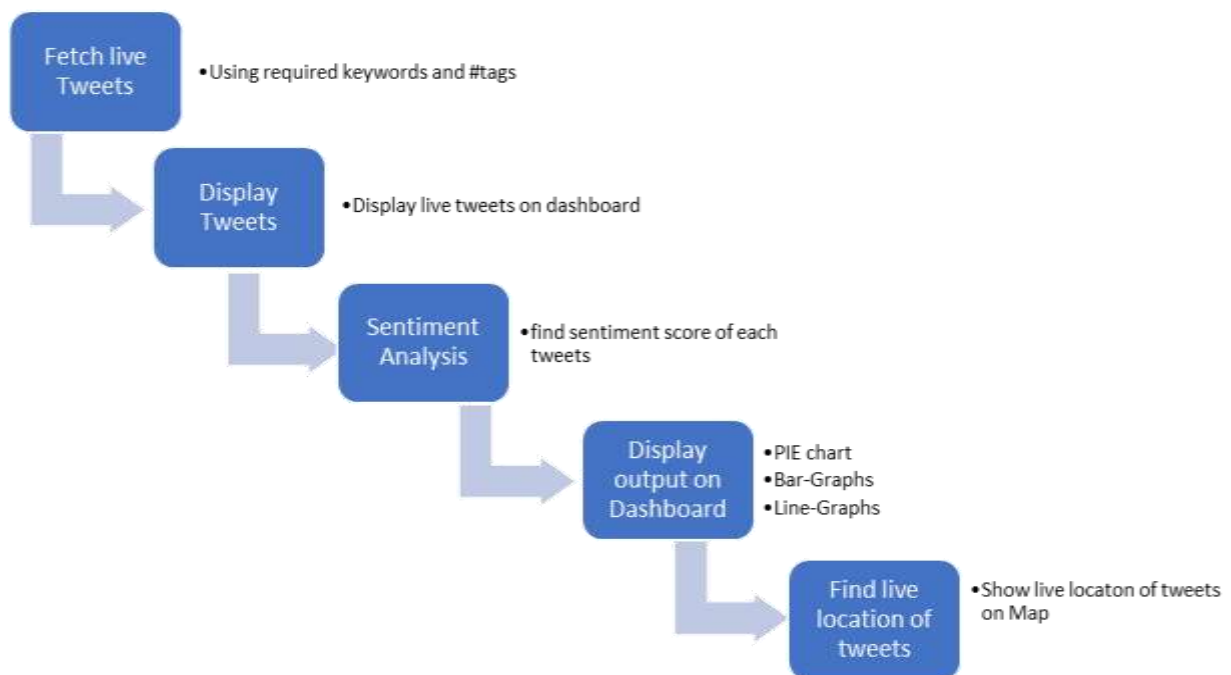
In order to understand the sentiment of people toward lockdown and covid-19 we will perform sentiment analysis on tweets related to it and display results in form of different graphs on a dashboard we will be using node-red for this task.

We learned services like IBM cloud, Node red ,zoho writer, Etc

Also in node red we used different nodes like :

1. Twitter node:- This node is beneficial for getting the "n" number of tweets on required #tag.
2. Sentiment node:- This node helps us in analysing the sentiments of and word / sentences .
3. Gauge node:- this shows the output in the form of a spinner.
4. chart node :- this shows the output in the form of graph .
5. function node:- this node helps us in adding some conditions and loops to the flow.

Flowchart

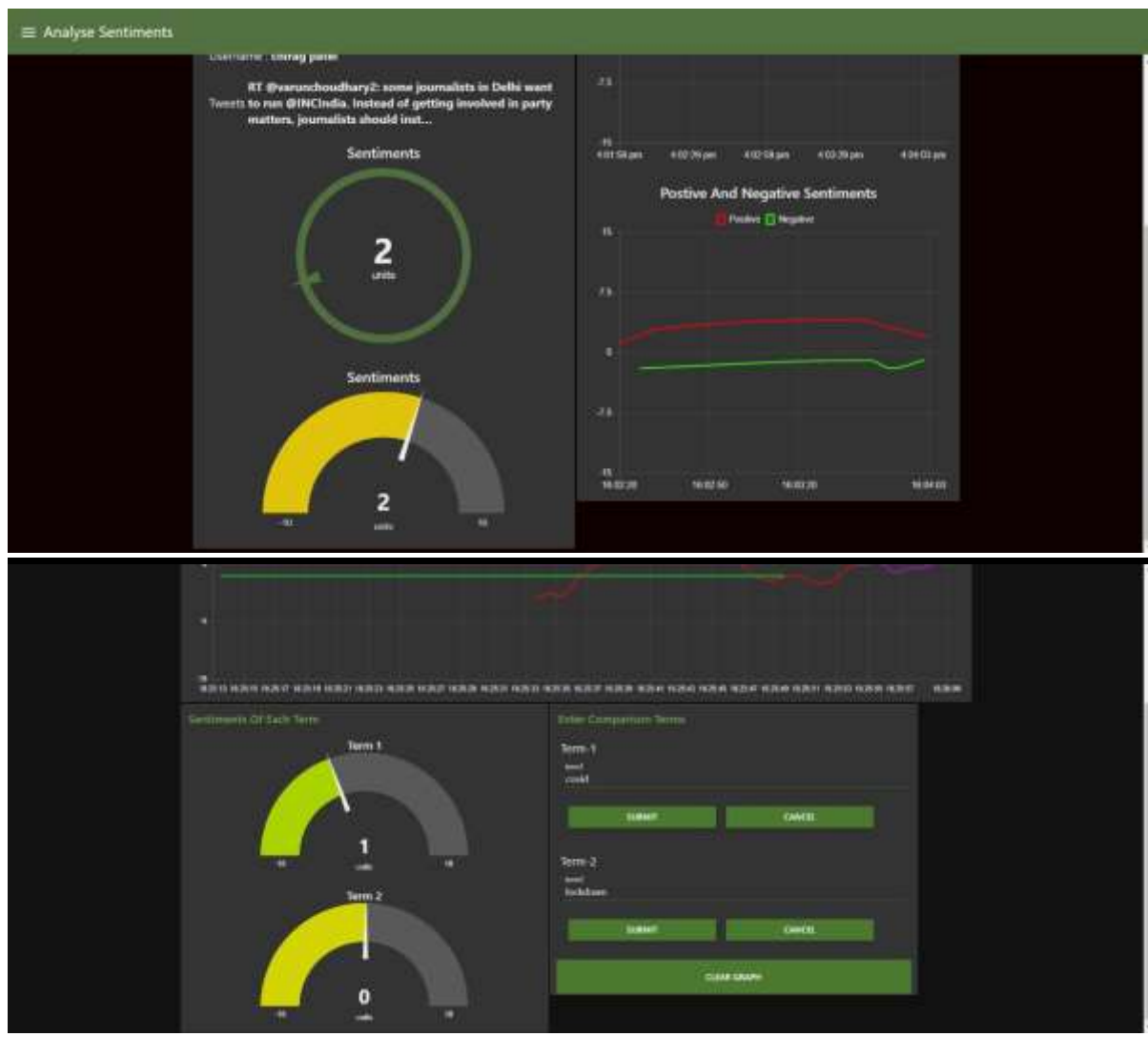


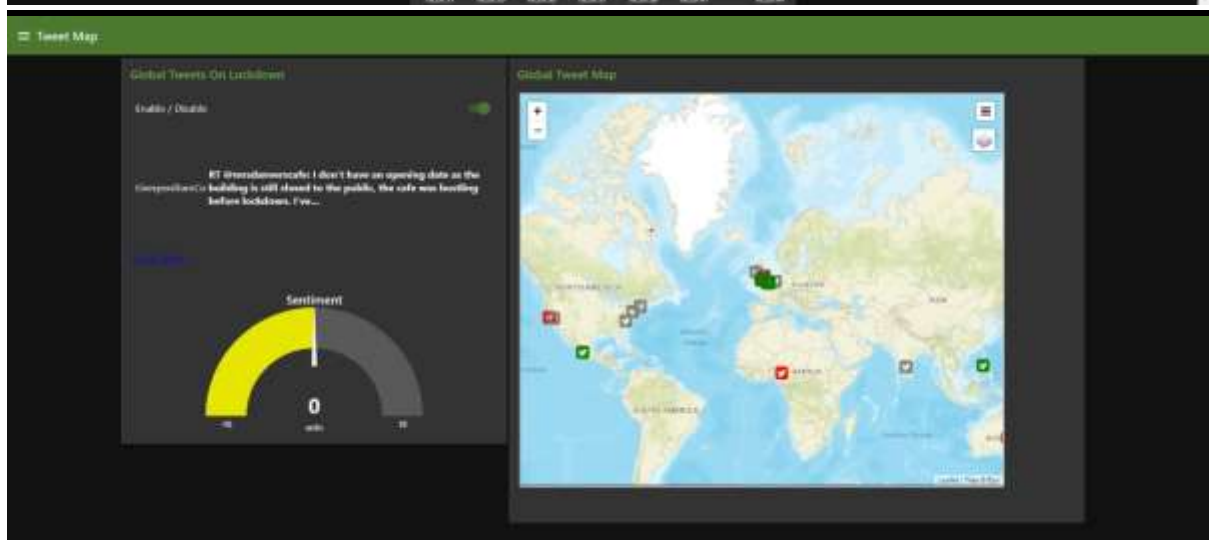
RESULTS

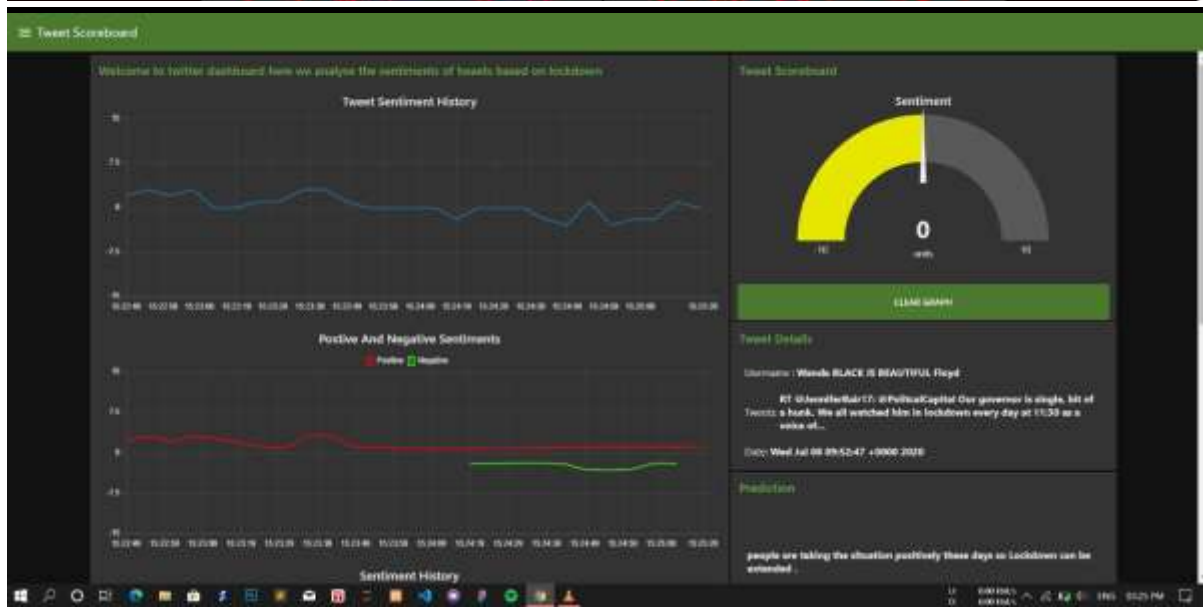
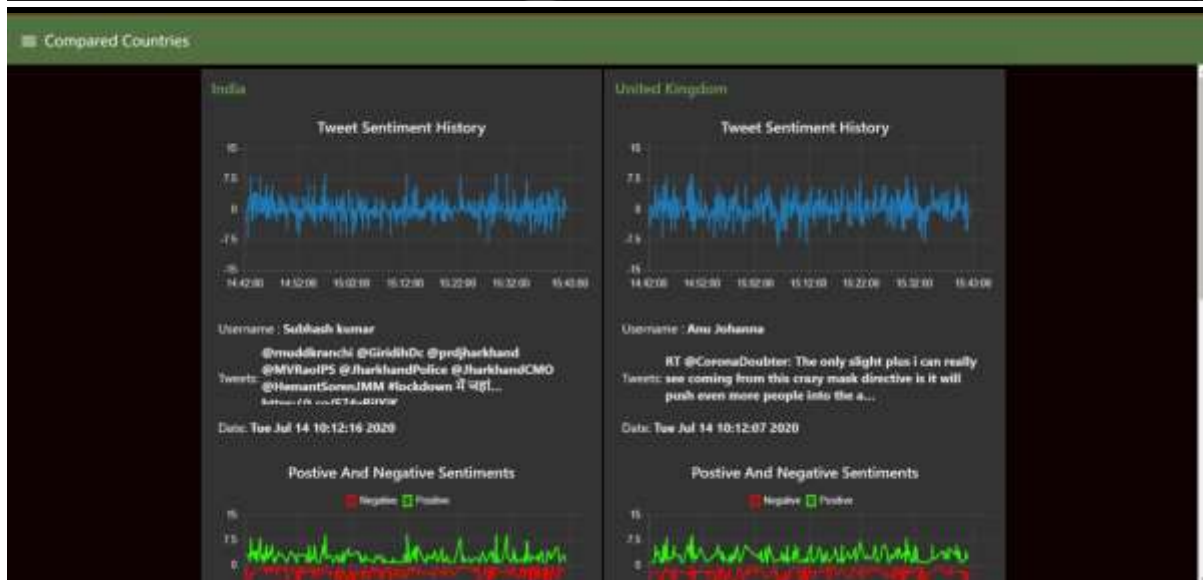
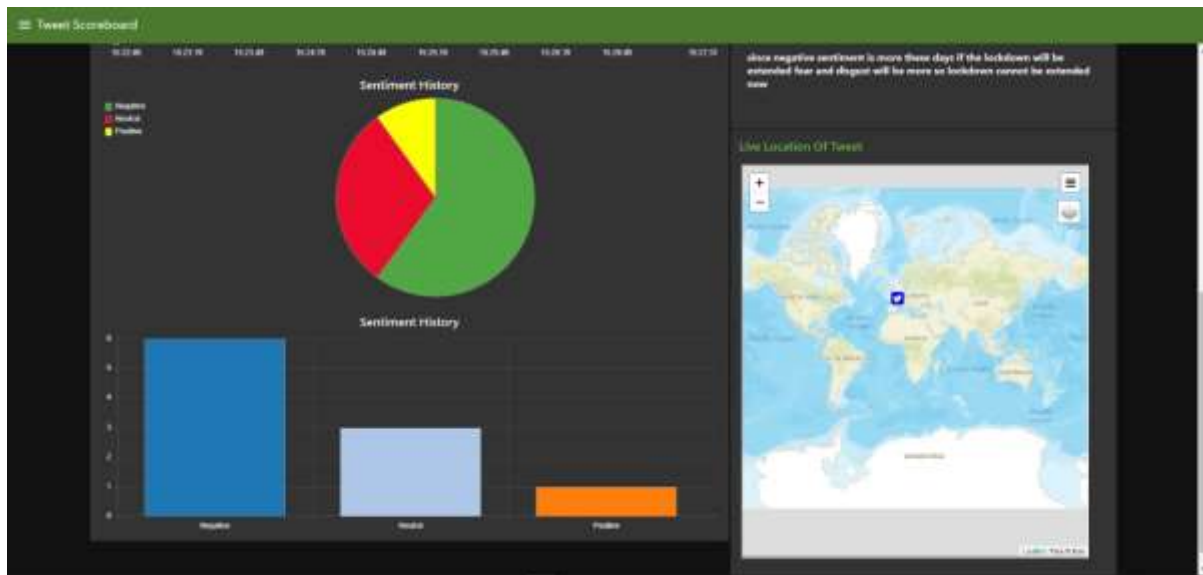
We came up with a Twitter Scoreboard which displays all the graphs, pie-chart, prediction of lockdown, map for plotting live location of tweets which will help us to understand that which are the regions in India facing with more

Negative or Positive Sentiments. Along with this we will be displaying live tweets which can also be useful .

Also, We have some pages like Compare Tweets , top tweets , Analyse Sentiment , etc which have advantages not only in field of COVID-19 but also others so that this UI will be usefull After overcoming the Covid-19 pandemic to judge the sentiment of people towards many other topics.







≡ Analyse Sentiments

Analyse Sentiments of any Sentence / Word

Enter Your Text

Paste the text
COVID19

SUBMIT

CANCEL

CLEAR GRAPH

Username : K.

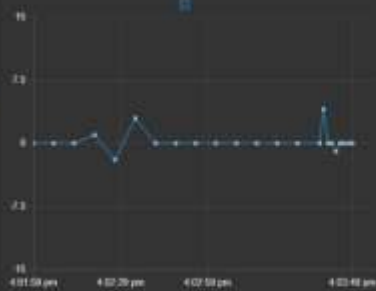
RT @modified_hindu: #Iran #China #Bharat and How
Tweets Global Games have been shifted in Corona Times Now
People are giving opinion on why Iran...

Sentiments

0
0%

Sentiment Plot

Linear Plot



Positive And Negative Sentiments



≡ Top Tweets

Top 10 Samples

Rank	Tweet	Score
1	RT @francis_hoar: Thank you, Boris. And all of who supported lockdown. The consequences of this - to health, society, freedom, livelihoods—	6
2	RT @ronalduimora: "Igbo don't like themselves." But the South-East had the best COVID-19 lockdown palliative response in the country. 10...	5
3	RT @shdavidssmadi: California is going on yet another lockdown. The people I'm hearing from are not happy about it all. How many more lockd...	3
4	RT @deseen: Renderings depicting surreal dreamscapes have become popular recently, as people in lockdown seek to be transported beyond thei...	3
5	@rahulsky54 Hope so. It says complete lockdown and guidelines being prepared. Now if there is a lockdown traffic an... https://t.co/H4eqDu9yHl	3
6	Why twitter decided to lockdown my account? Like whaaaat	2
7	I hope to see a similar trend in Australia #lifelonglearning or #lifelonglockdown or #both https://t.co/VnD0h3fk	2
8	RT @PTI_News: Complete lockdown in Bihar from July 16-31: Deputy Chief Minister Sushil Kumar Modi	0
9	RT @ianmc2066: @SimonLeggett5 @jimpick1882 Where has the government mentioned temporary? It will go the way of a three week lockdown.	0
10	@MerielMyers I know what you mean. I keep seeing them on telly and when they're asked how they coped with lockdown... https://t.co/6cz17wnbl	0

Rank	Tweet	Score
1	RT @nbsbv: Shoot to kill: LDUs kill more Ugandans than coronavirus as lockdown bites #NilePostNews #NBSUpdates https://t.co/BR6Rq6M7CG	-7
2	RT @8itustidhearts: This is BB fandoms becomes horrible toxic. The Main Reason is lockdown nothing else . Hence proved . Empty Mind is...	-4
3	RT @GaddyStanley : I blame the lockdown for this sha. Imagine you had an 8am class to attend, you won't be here forming woks...	-2
4	One of the things that has really hit home over lockdown is the shocking standard of Educational websites. Flash ev... https://t.co/9BPmggfgQv	-2
5	RT @ABakulmar: What is the purpose of charging Library fees, Transportation Charges, and extra taxes? In Spring 2020 since the lockdown, et...	-2
6	RT @audrey_huff: Did the first lockdown stop #Covid_19? No! Then why @GavinNewsom do you think a 2nd shutdown will? At some point we have t...	-2
7	RT @Baldlocks : Get out of Nigeria while you still can. A country that will jail someone who broke lockdown to look for food for their fa...	-1
8	RT @PTI_News: Complete lockdown in Bihar from July 16-31: Deputy Chief Minister Sushil Kumar Modi	0
9	RT @ianmc2066: @SimonLeggett5 @jimpick1882 Where has the government mentioned temporary? It will go the way of a three week lockdown.	0

Advantages And Disadvantages:

Advantages:

- Our dashboard shows the sentiment analysis of **live** tweets fetched from twitter along with the tweets.
- Twitter scoreboard page shows sentiment analysis of tweets related to lockdown only from India so that people are able to predict current scenario of COVID -19 and predict about the extension of lockdown.
- Also User can compare the COVID situation of India with UK which will help us to predict position of our country towards fighting COVID-19.
- Each page has its own different feature which are useful for COVID-19 prediction Also some of them call be usefull for analysis of different things .
- The compare tweet can be used to compare different products, decision, etc to know people sentiment toward it and judge which one will be better.

Disadvantage:

- We are predicting based on sentiment of people that lockdown should be extended or not but not everytime the negative sentiment is because of the same reason so prediction can not be accurate sometimes.

Application

1. This research application is not only convenient for Coronavirus health issue but it can also be adopted as model to discover sentiment emotion for the future similar cases.
2. The compare tweet can be used to compare different products, decision, etc to know people sentiment toward it and judge which one will be better.

Conclusion

- ▶ Here we have presented results for sentiment analysis on Twitter. We report an overall accuracy for 3-way classification task: positive , neutral & negative tweets.
- ▶ We have built an UI to Display the results in more efficient way.
- ▶ Also we have predicted the extension of lockdown.
- ▶ Further we have compared the two countries based on lockdown tweets.
- ▶ In the future we will try to built more easy and efficient applications with some modifications in our project.

Future Scope

Due to lack of time, and computational process, many aspects has been left for the future works. It would be interesting to take the following research area into consideration:

- Since there are so many professional and official people on Twitter, you may find more reliable source of information on Twitter than other social medias such as Facebook, Wechat ,

Instagram. However, it is very essential to explore other social media with regard to sentiment analysis.

- We will try to perform Image Sentiment Analysis using IoT.
- This model can be used in future for such similar problems.

Bibilography

Team Name: ENIGMA 4.0

Team Members: Sakshi Hiwrale, Suyash Chillwarwar, Aditi Mujmer, Siddhant Gupta

Project Title: Twitter Sentiment Analysis of COVID-19

REFERENCES :

1.NODE RED: <https://nodered.org/>

2.Twitter API: <https://developer.twitter.com/en>

3.NODE -RED Tutorial:
<https://www.youtube.com/channel/UCvB8PgOZdb2y7lgToPE-Dfw>

Appendix

- Node-Red UI Link : <https://node-red-kyrky.eu-gb.mybluemix.net/ui/#!/5?socketid=gCo9b1FY0tZRt48EAAAA>

Source Code for Tweet Scoreboard

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javascript\nmsg.payload = newtweet.replace( /((([a-z]+\V)?((([a-z0-9\\-
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elements are negative return false\n
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time but total lockdown will not be
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`/worldmap`;
\nmsg.payload.command = {};
\n\nvar u =
'http://s.tile.openstreetmap.org/hot/{z}/{x}/{y}.png';
\nvar o =
JSON.stringify({ maxZoom: 19, attribution: '&copy;
OpenStreetMap'});
\n\nmsg.payload.command = {
\n  layer:'Esri',
\n  lat:18.44081,
\n  lon:-
66.08068,
\n  zoom:2,
\n  map:
{name:'Esri', url:u, opt:o},
\n  };
\nreturn
msg;
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newtweet = tweet.replace(/#/g, \" Hash tag \");\n\n// regex from
https://stackoverflow.com/questions/1500260/detect-urls-in-text-with-
javascript\nmsg.payload = newtweet.replace( /((([a-z]+\:\/\/)?((([a-z0-9\-\
]+\.\.))+([a-z]{2}|biz|com|co|edu|gov|info|net|org|ly))(:[0-9]{1,5})?(\/[a-z0-
9_\-\.\.]+)*\/([a-z0-9_\-\.\.])((\?[a-z0-9+_\-\.\.]=&[a-z0-9!$&'()*+.=_-~:
@/?](\?[a-z0-9_\-\.\.]*)(\?[a-z0-9+_\-\.\.]=&[a-z0-9!$&'()*+.=_-~:
@/?]*)?)(\s+|$)/gi, \"see
short URL \" );\nreturn
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Location Of

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