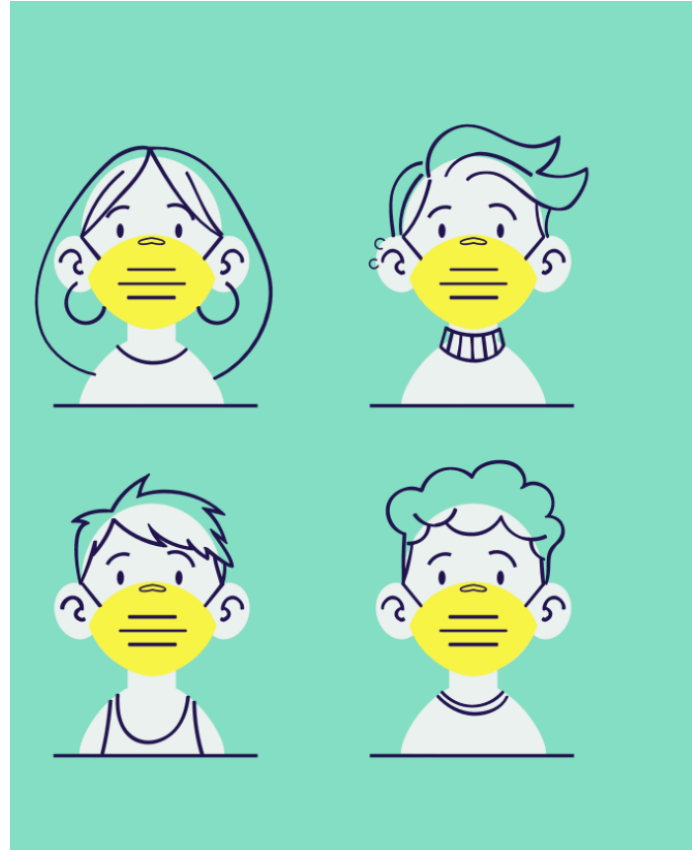# COVID-19 2020

Project by:

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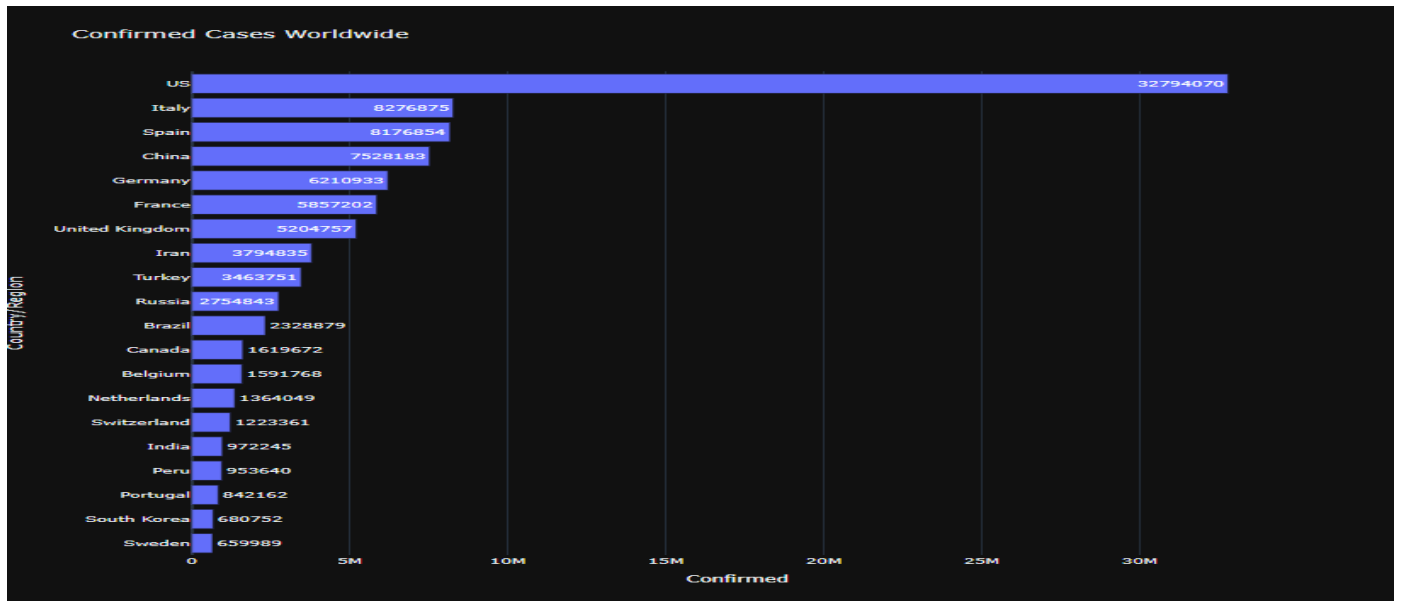
Project Report

PROBLEM:

- A large number of people do not understand the gravity of the condition we are in right now and are therefore acting immaturely. They are experiencing different levels of "solution aversion" when it comes to one-size fits all advice of Social Distancing.

- People are having psychological distress from these never ending lockdowns and depression has become a normal sight.
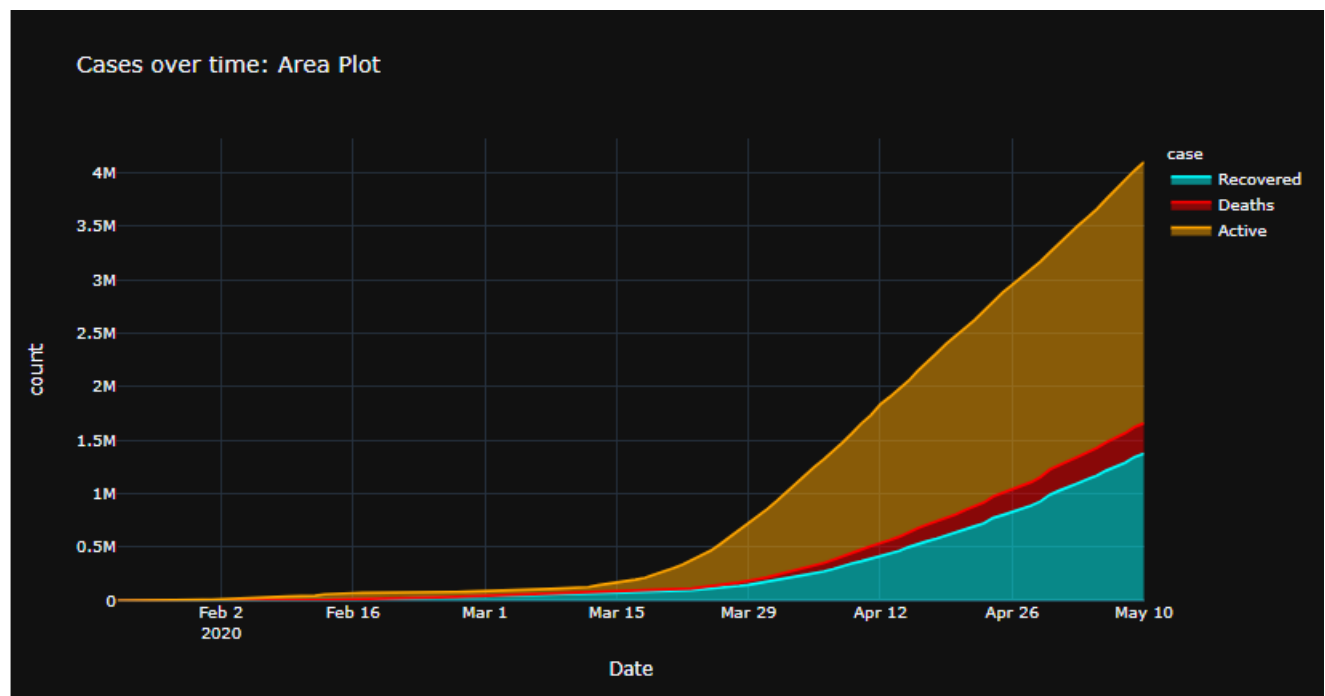
SOLUTION:

- We hope to make the common people aware how greatly this pandemic is affecting us globally with the help of easy to understand visualizations.

- The Sentimental Analysis will help us gain an understanding of the attitudes, opinions and emotions of the people within an online mention

OVERVIEW

CONFIRMED CASES (Upto 5 May 2020)

Confirmed Cases Worldwide

Country/Region	Confirmed
US	32794070
Italy	8276875
Spain	8176854
China	7528183
Germany	6210933
France	5857202
United Kingdom	5204757
Iran	3794835
Turkey	3463751
Russia	2754843
Brazil	2328879
Canada	1619672
Belgium	1591768
Netherlands	1364049
Switzerland	1223361
India	972245
Peru	953640
Portugal	842162
South Korea	680752
Sweden	659989

CORONAVIRUS: PROGRESS OVER TIME

Cases over time: Area Plot

case
- Recovered
- Deaths
- Active

GLOBAL SPREAD

COMPARISIONS WITH SOME OTHER PANDEMICS:

INDIAN STATES PROGRESSION OVER TIME
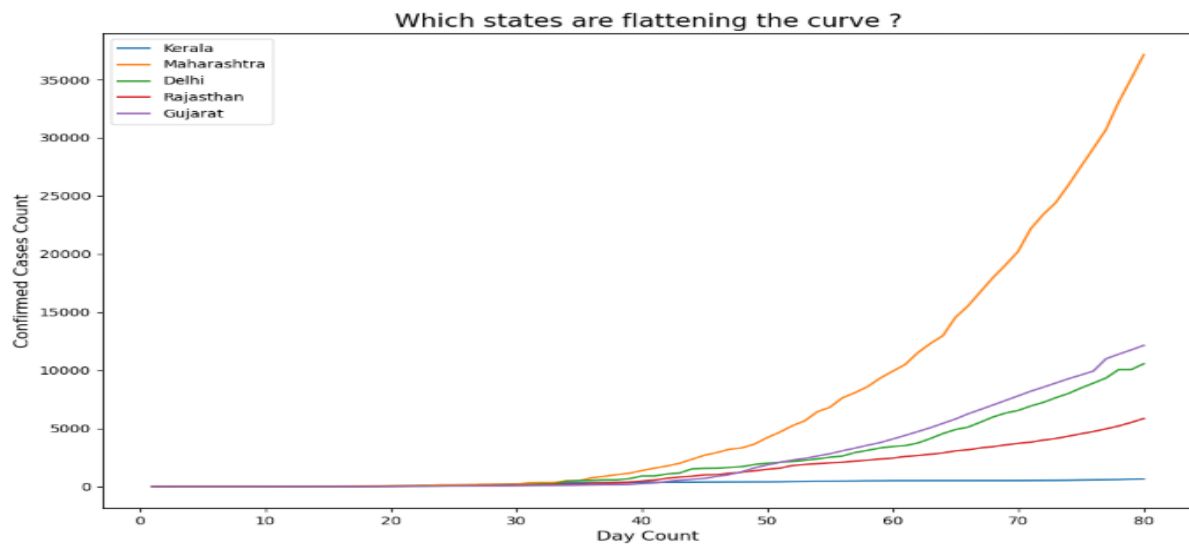
We see almost all the curves follow the curve which is displayed by the nation as a whole. The only anomaly is that of Kerala. Kerala's curve saw the gradual incline in the period between 20-30 days as seen in other curves. But what Kerala managed to do was it did not let the curve incline further and manage to flatten the curve. As a result, the state has been able to contain the situation.

The situation in Maharashtra looks very grave indeed. The curve has had an immense steep incline and shows no signs of slowing down

MASK CLASSIFIER :

OUR AIM IS TO IMPLEMENT THIS DETECTION IN REAL TIME.

SENTIMENT ANALYSIS :

```python
In [61]: for a,b,c,d in ds.itertuples():
             print(b,"\t\t",d)
             print("\n")
```

```
Will change my bank now HDFC, with China buying stakes. Don't want even a penny of my hard earned money to profit #China. #le
avehdfc. @HDFC_Bank Can't Govt. do anything as China is abusing the #Covid_19 situation ? #COVID2019 @narendramodi @FinMinInd
ia #ChinaVirus #covidindia              -1


On this Baisakhi, let us pray it will be a year with new peace, new happiness, and an abundance of new friends. May God bless
you throughout the coming season. Happy Baisakhi!#VaisakhiAtHome
 #stayhomestaysafe @mlkhattar @flickersingh @imranirampal @sardanarohit @RajanSaluja https://t.co/mmmlZckJcQ              1


@realDonaldTrump FOCUS ON #coronavirus
STOP BLAMING AND DO YOUR JOB.              -1


@sardesairajdeep the argument that the provision in law was during UPA regime is just too hollow. how can anyone justify tha
t?
these are unforeseen and extraordinary times. the govt should have issued necessary notification to include CM funds so state
s can better battle #Covid_19 and its effect.              -1
```

TECHNOLOGY STACK

VISUALISATIONS: PLOTLY , FOLIUM , MATPLOTLIB , NUMPY , PANDAS
MASK CLASSIFIER : KERAS TENSORFLOW , NUMPY , MATPLOTLIB
SENTIMENT ANALYSIS : VADER IN PYTHON

CONCLUSION

The project aims to illustrate and highlight the disastrous out reach of corona virus in an understandable manner. We aim to spread more awareness to the common masses using simple yet engaging illustrations that will help them discover the level of threat that we are facing. Our project also takes into consideration the mental health of the people, which seems to be deteriorating by time in this lockdown. All in all, people should understand how grave this matter is or else they will end up in a grave.