Data Modelling & Analyzing Coronavirus Spread using Data Science

REVIEW-1

TARP-ECE3999

DR.ILAVARASAN.T

Members:

V.Sai Yashwanth – 17BEC0369

M.Sai Pranav – 17BEC0708

K.C.S.S.D.Chakradhar – 17BEC0873

B.K Hemcharan – 17BEC0189

K.Surya teja – 17BEC0138

Kongkon J – 17BEC0076

TEAM-11

OBJECTIVE

- To provide a modelled data and to help people analyze and improve the current situation of the pandemic.
- Our Project is an attempt of data modelling and analyzing Coronavirus (COVID-19) spread with the help of data science and data analytics in python.

ABSTRACT

- In this project we will be taking raw data from the most reliable sources and convert it into tables, graphs and to other forms of organized data for machine learning engineers or some other researchers which might help them a bit along their process of actively trying to fight covid-19.
- We will be fitting the data to a familiar model for pandemics called SIR (susceptible infected recovered) which is a part of compartmental model techniques.

INTRODUCTION

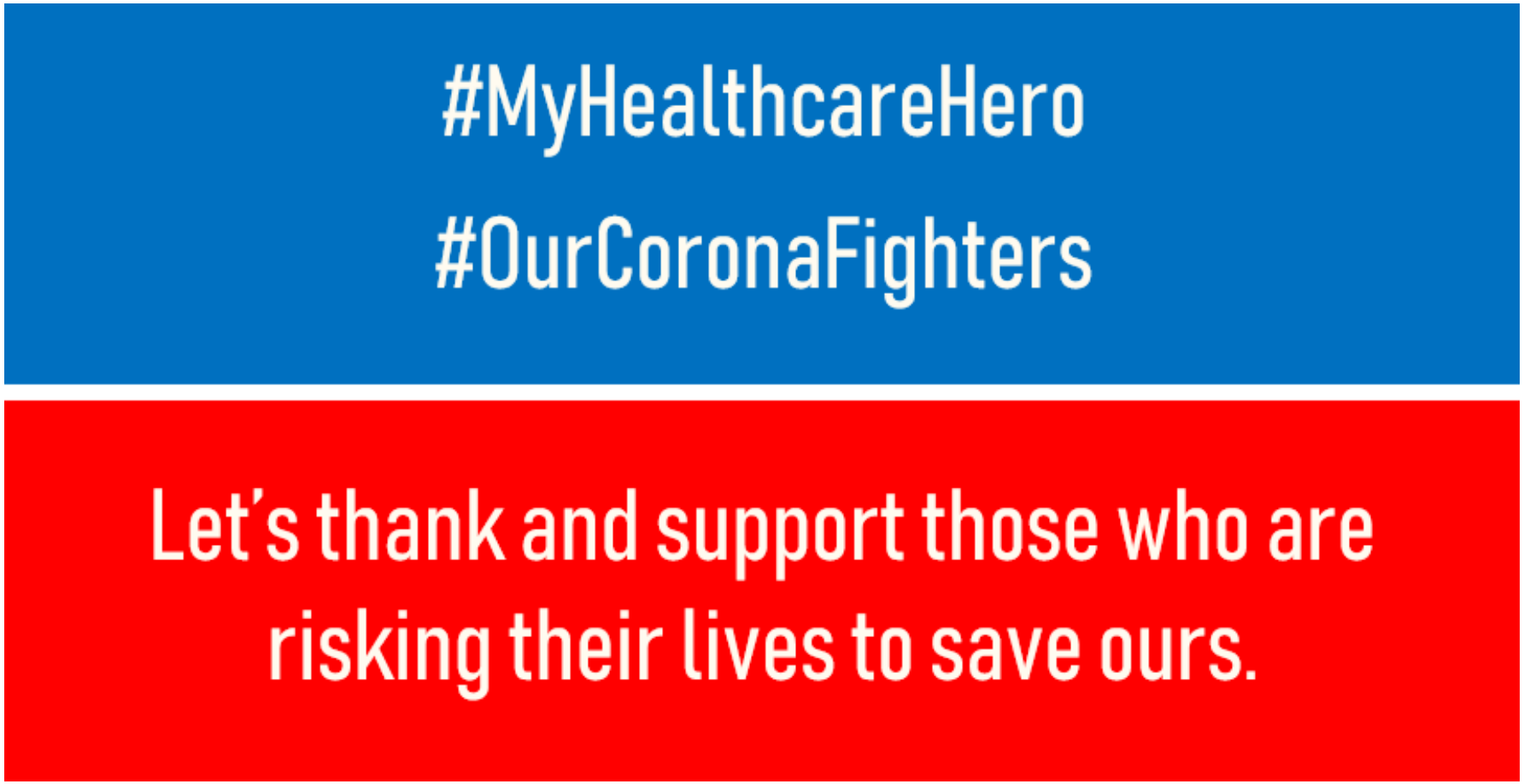
- Currently, there are so many dashboards and statistics around the Coronavirus spread available all over the internet. With so much information and expert opinions, to see different nations adopting different strategies, from complete lockdown to social distancing to herd immunity, one is left thinking as to what the right strategy is for them. Is there any basis to these opinions and advice? So this is an attempt of data modelling and analyzing Coronavirus (COVID-19) spread with the help of data science and data analytics in python code. This analysis will help us to find the basis behind common notions about the virus spread from purely a dataset perspective. So, let’s flex some data science muscles and jump right into it.

WORK DONE

- Collected the required datasets for the project
- Came to know what are the data factors that are correlated with each other in one particular dataset
- Created a Linear Regression model to predict how many people will die based on the people infected.
- Right now we are getting an accuracy of approximately 43%. We are trying to do data analysis and take more factors into consideration in order to improve the accuracy and we have a chance of getting an accuracy of more than 80%.

TEAM CONTRIBUTION

Name	Contribution
Yashwanth	Finding Project & PPT Presentation
Chakradhar	Python Code & Working
Pranav	Framing Data Sets & Code
Hem Charan	Work flow & References
Surya	Work flow & References
Kongkon	Work flow & References


#MyHealthcareHero
#OurCoronaFighters
Let's thank and support those who are risking their lives to save ours.

Data Modelling & Analysing Coronavirus (COVID19) Spread using Data Science

ABSTRACT

In this project we will be taking raw data from the most reliable sources and convert it into tables, graphs and to other forms of organized data for machine learning engineers or some other researchers which might help them a bit along their process of actively trying to fight covid-19.

We will be modelling and analyzing the data and try to predict the covid-19 cases in the future, we will be fitting the data to a familiar model for pandemics called SIR (susceptible infected recovered) which is a part of compartmental model techniques.

OBJECTIVE OF THE PROJECT

To provide a modelled data to help people analyze and improve the current situation of the pandemic.

TO WHOM IT IS USEFUL

To any engineers or scientists who are working that needs to analyze covid-19 analytics to improve the present situation.

WORK PLAN

JULY	AUGUST	SEPTEMBER	OCTOBER		
	CODING				
LITERATURE REVIEW	DESIGNING		REPORT SUBMISSION		
Collecting and researching all the resources required	Will get started on data modelling using google colab,python, jupyter	Writing prediction code and end review of the project	DEMONSTRATION		
			FINAL VERSION		

MEMBERS

17BEC0369 V SAI YASHWANTH REDDY

17BEC0708 M SAI PRANAV REDDY

17BEC0873 K C S D CHAKRADHAR

17BEC0189 B K HEM CHARAN

17BEC0138 KRISHNAM SURYATEJA