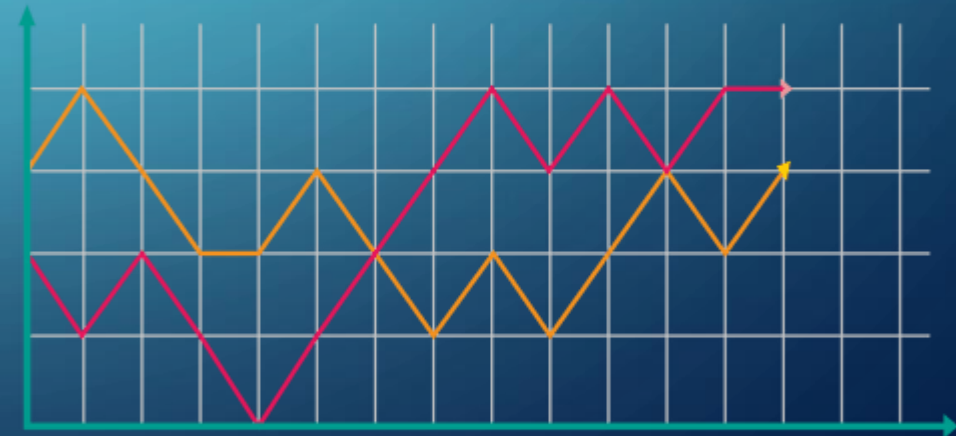
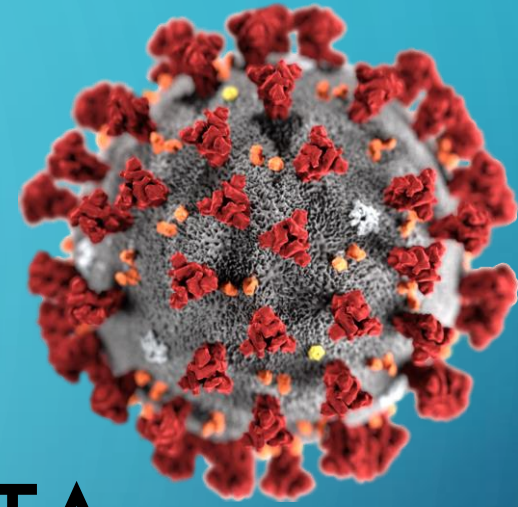


# COVID-19 TRACKER AND DATA VISUALIZATION

by Atharva Sanjay Katre



## Purpose

Covid.info web app is built to track and analyze the Coronavirus global pandemic.

It displays live stats of Covid-19 cases from all over the globe.

Different visualization techniques are used for easier understanding and studying the trend of the pandemic.

# Why visualize Covid-19 data?

- After doing some research about the data analysis of the ongoing Covid-19 pandemic I found out that there were not many reliable sources which provided real time analysis and visualization of the trend of the pandemic so far.
- So... I decided to create an interactive web app for easy and better understanding of the pandemic with the help of available data.

## Used Technologies

- Django framework
- Python for back-end
- Plotly and Dash for plotting graphs and choropleth maps
- Open source API's and web scraping for Covid-19 data
- Bootstrap for front-end

# DATA SOURCES

## ○ API

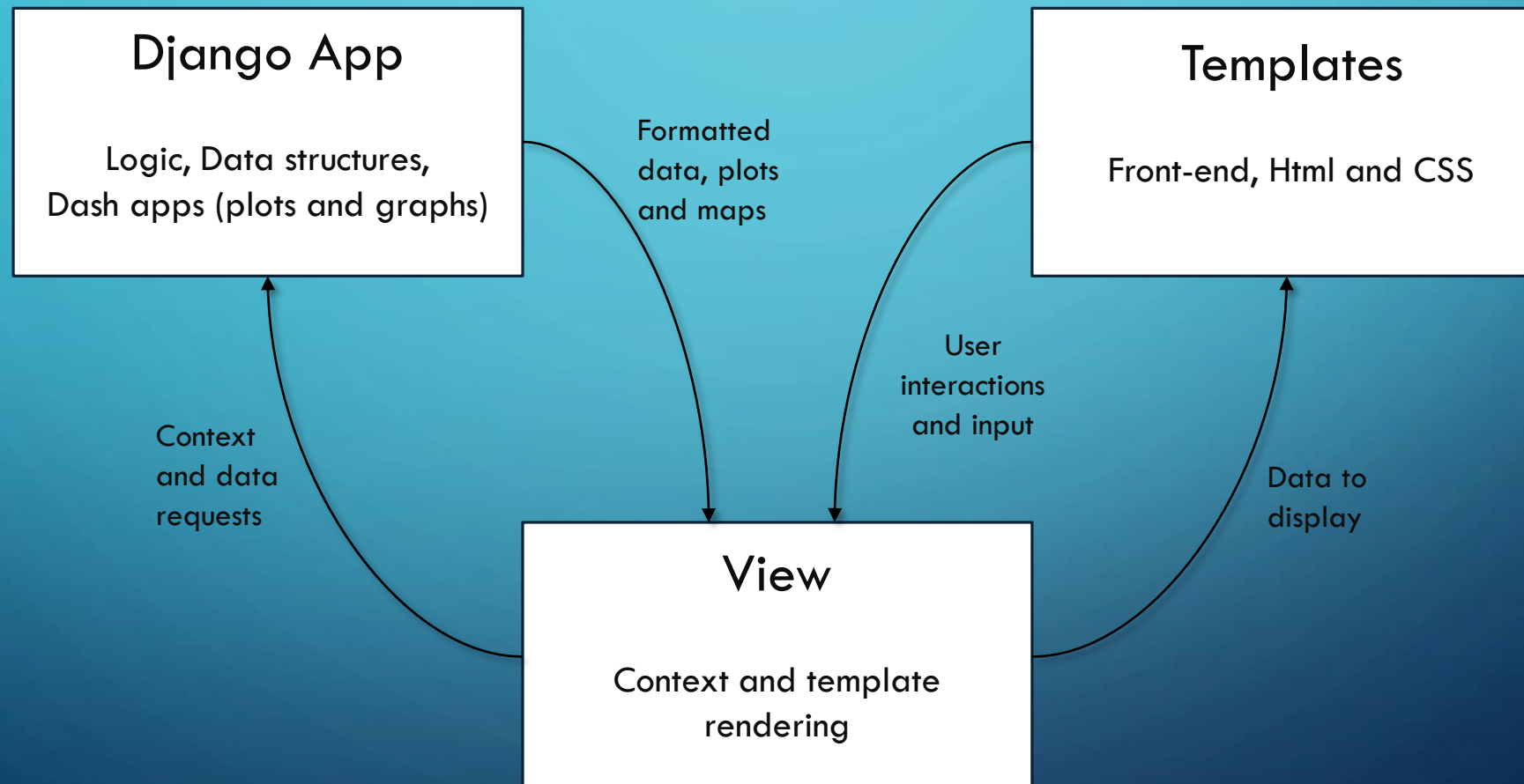
I used different APIs to collect different types of data for this project. Few are listed below:

- <https://covid19api.com>
- <https://github.com/datasets/covid-19>

## ○ Web scraping

Also used python's web scrapping tools for collecting specific data.

# Django framework



## dinago-plotly-dash

- This library is used to expose the Plotly dash apps as Django tags.
- Using `dinago-plotly-dash` I was able to easily embed the Plotly Dash apps on my webpage.



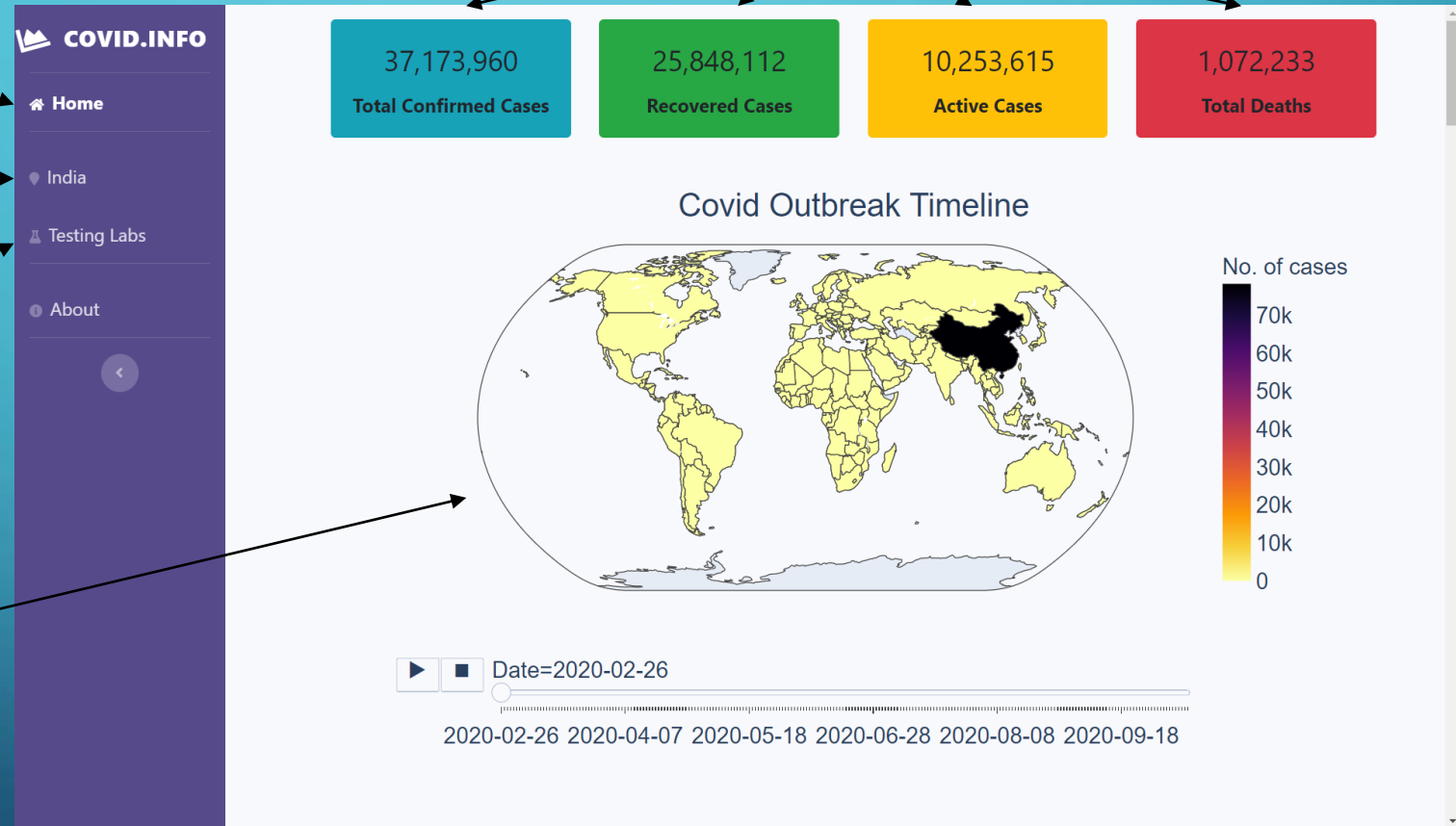
# Site Map

Global  
analysis

For India specific  
analysis

To locate Covid  
testing labs in  
India

Plots and maps for  
data visualization

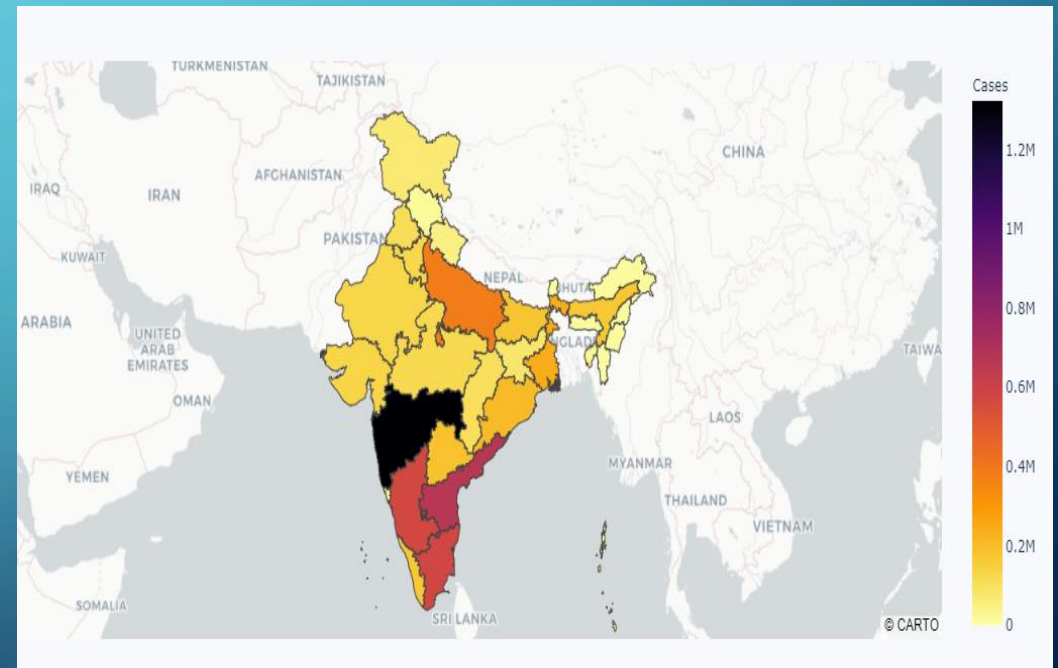
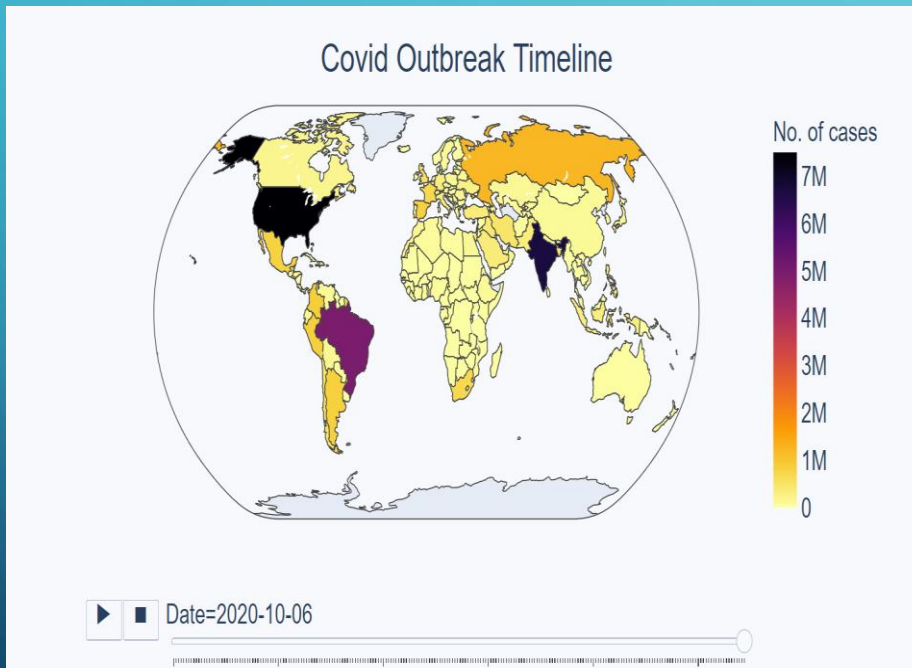


Link - <https://covid19--info.herokuapp.com>



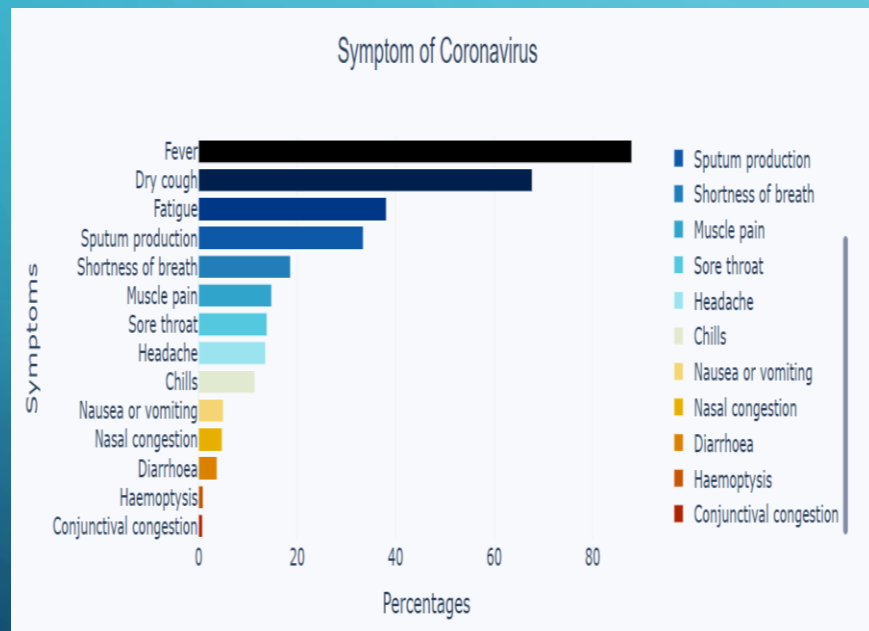
# Plots And Maps

## ○ Choropleths and Timeseries choropleths

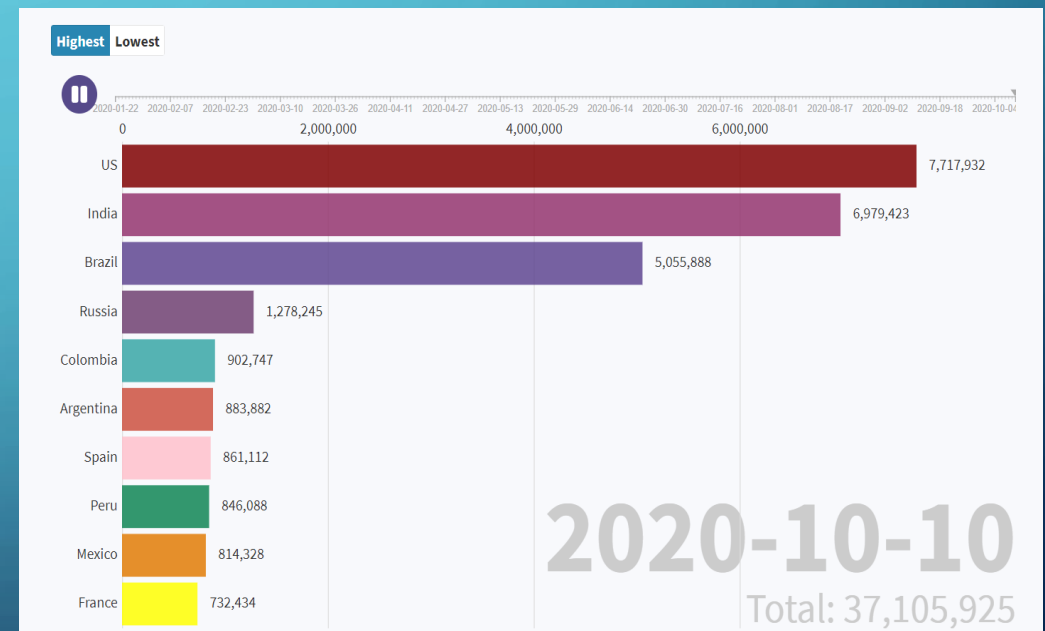


# Plots And Maps

## ○ Bar graphs

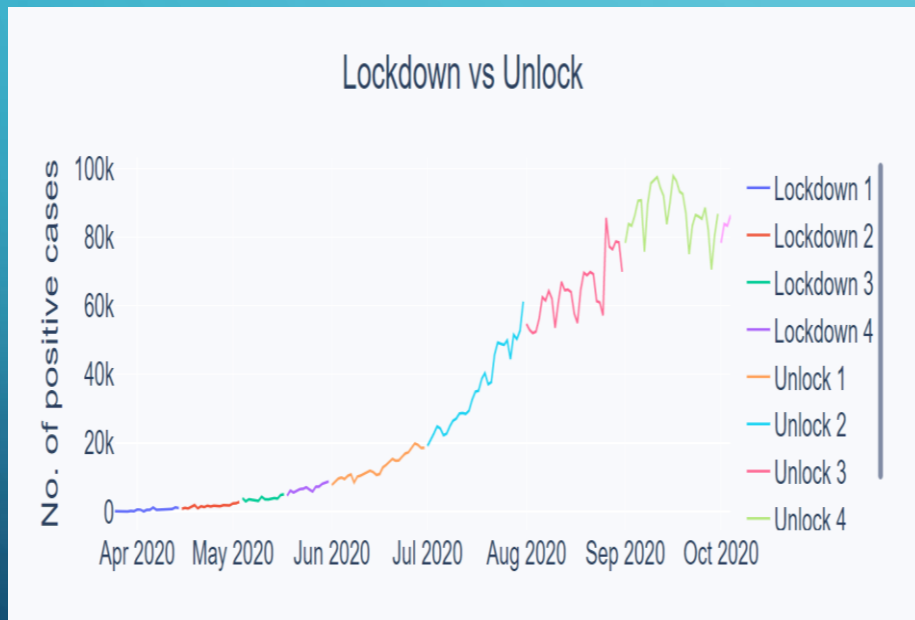


## ○ Racing Bar graphs

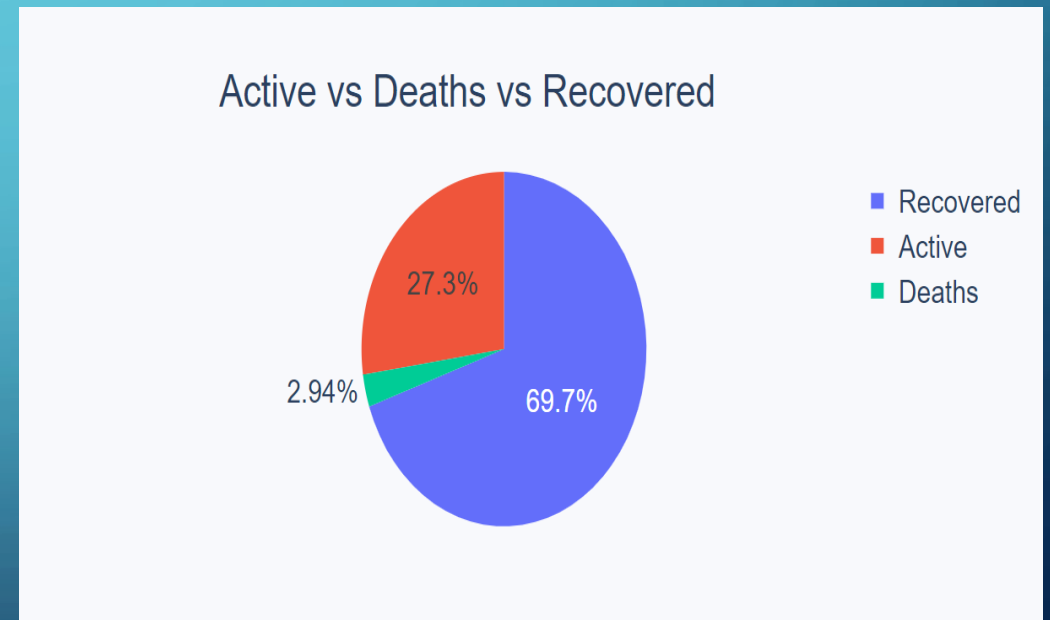


# Plots And Maps

## ○ Line graphs



## ○ Pie charts



The background is a blue gradient. In the corners, there are decorative white lines resembling circuit traces or a network diagram, with small circles at the endpoints.

# THANK YOU

Source code - <https://github.com/AtharvaKatre/covid19info>

Project link - <https://covid19--info.herokuapp.com>

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