Data Science Project
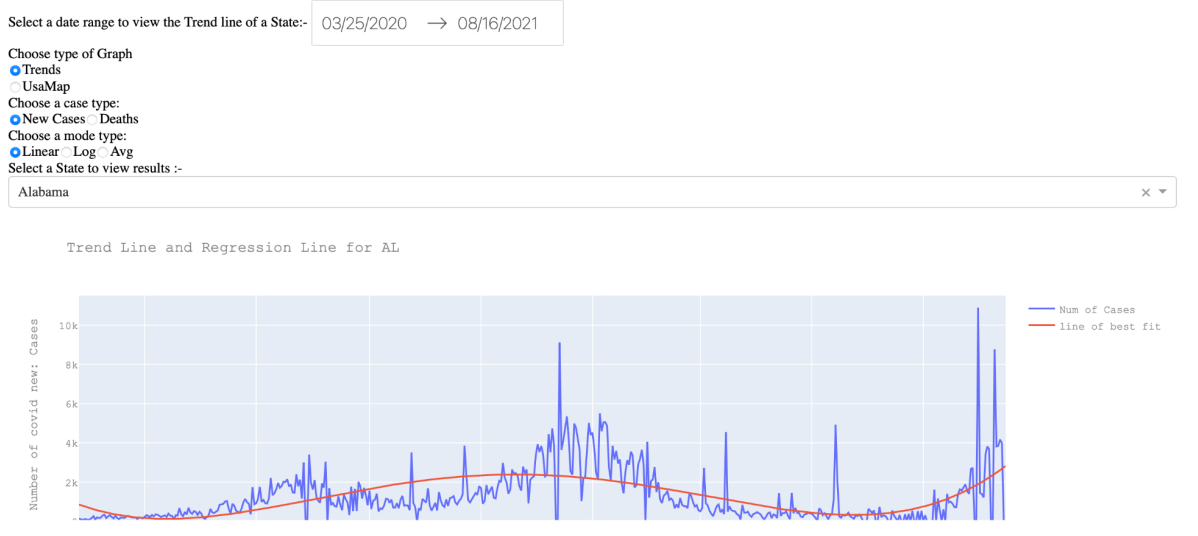
Stage 4 Report

In his stage, we have focused on creating an interactive Dashboard for the analysis and modelling we have performed in stage 1 to stage 3. We incorporated generating trendline for new cases and deaths across United States by providing radio buttons new cases or death. By default the screen will show United states report. User can choose a particular state to view the trend. There is date range selection option also for which when a specific date is selected, the trend will be produced based on those dates. There is also an option to chose log or linear values. The graph will change accordingly for the selections made. 7 day moving average is also calculated for all the trend lines that are being displayed. USA map is developed based on the normalized cases and deaths for each state in USA.

Screenshots:

Default Page:

Select New Cases:

Web Application Dashboard For Covid Analysis

Select a date range to view the Trend line of a State:- 03/25/2020 → 08/16/2021

Choose type of Graph
- ● Trends
- ○ UsaMap

Choose a case type:
- ● New Cases ○ Deaths

Choose a mode type:
- ○ Linear ● Log ○ Avg

Select a State to view results :-

| Alabama | × ▼ |

Trend Line and Regression Line for AL

Legend:
— Num of Cases
— line of best fit

Select Death cases:

Web Application Dashboard For Covid Analysis

Select a date range to view the Trend line of a State:- 03/25/2020 → 08/16/2021

Choose type of Graph
- ● Trends
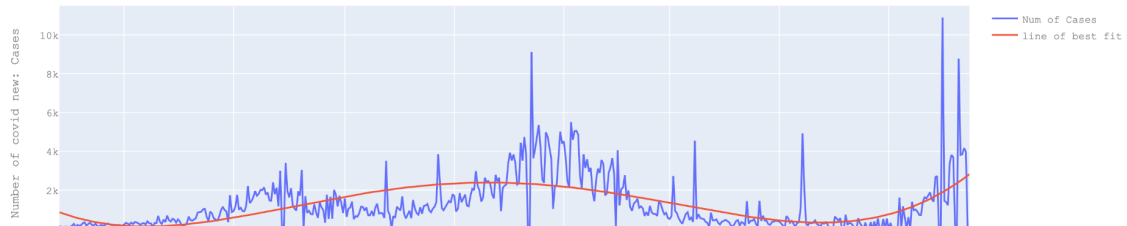- ○ UsaMap

Choose a case type:
- ○ New Cases ● Deaths

Choose a mode type:
- ○ Linear ● Log ○ Avg

Select a State to view results :-

| Alabama | × ▼ |

Trend Line and Regression Line for AL

Legend:
— Num of Cases
— line of best fit

Select Log mode:

Web Application Dashboard For Covid Analysis

Select a date range to view the Trend line of a State:- 12/02/2019 → 08/16/2021

Choose type of Graph
- ● Trends
- ○ UsaMap

Choose a case type:
- ○ New Cases ● Deaths

Choose a mode type:
- ○ Linear ● Log ○ Avg

Select a State to view results :-

| Alabama | × ▼ |

Trend Line and Regression Line for AL

Select required date range and generate new cases for linear:

Web Application Dashboard For Covid Analysis

Select a date range to view the Trend line of a State:- 03/25/2020 → 08/16/2021

Choose type of Graph
- ● Trends
- ○ UsaMap

Choose a case type:
- ● New Cases ○ Deaths

Choose a mode type:
- ○ Linear ● Log ○ Avg

Select a State to view results :-

| Alabama | × ▼ |

Trend Line and Regression Line for AL

Select required date range and generate death cases for linear:

Select required date range and generate new cases for log:

Web Application Dashboard For Covid Analysis

Select a date range to view the Trend line of a State:- 03/25/2020 → 08/16/2021

Choose type of Graph
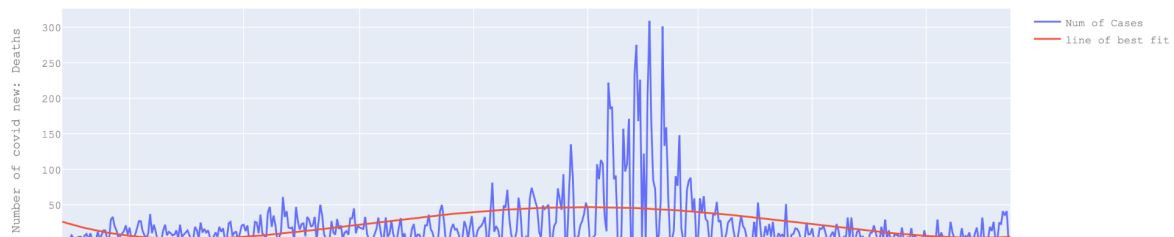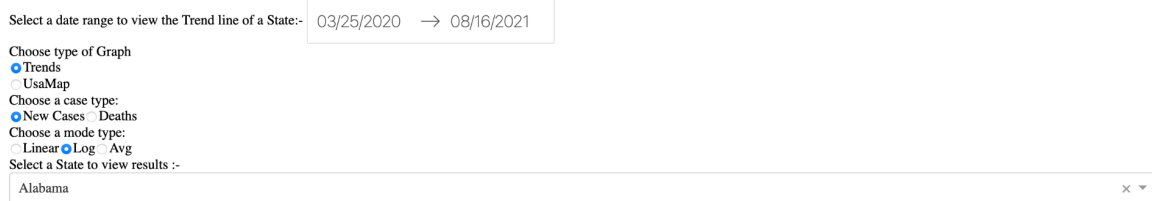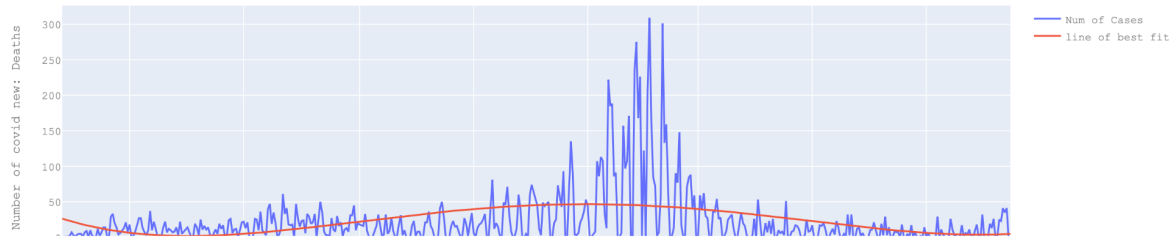● Trends
○ UsaMap
Choose a case type:
○ New Cases ● Deaths
Choose a mode type:
○ Linear ● Log ○ Avg
Select a State to view results :-

Alabama   × ▼

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Trend Line and Regression Line for AL

Select required date range and generate death cases for log:

Web Application Dashboard For Covid Analysis

Select a date range to view the Trend line of a State:- 12/31/2020 → 02/04/2021

Choose a case type:
○ New Cases ● Deaths
Choose a mode type:
○ Linear ● Log
Select a State to view results :-

United States   × ▼

Trend Line and Regression Line for US

Show 7- day average for new cases:

Web Application Dashboard For Covid Analysis

Select a date range to view the Trend line of a State:- 12/02/2019 → 08/16/2021

Choose type of Graph
◉ Trends
○ UsaMap
Choose a case type:
◉ New Cases ○ Deaths
Choose a mode type:
○ Linear ○ Log ◉ Avg
Select a State to view results :-

United States ✕ ▾

7-day moving average

Show 7 day average for death cases:

Web Application Dashboard For Covid Analysis

Select a date range to view the Trend line of a State:- 12/02/2019 → 08/16/2021

Choose type of Graph
◉ Trends
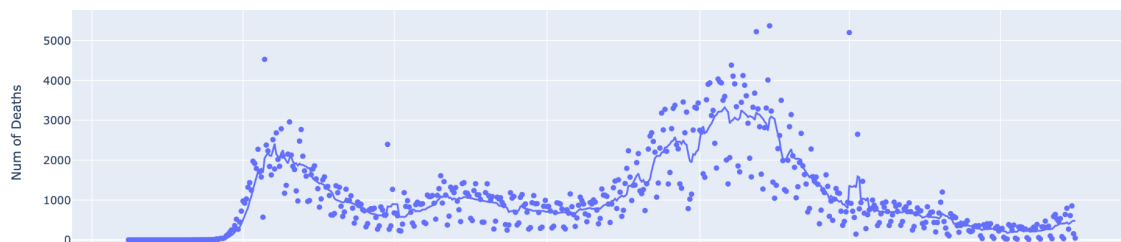○ UsaMap
Choose a case type:
○ New Cases ◉ Deaths
Choose a mode type:
○ Linear ○ Log ◉ Avg
Select a State to view results :-

United States ✕ ▾

7-day moving average

US map data:

Select a date range to view the Trend line of a State:- 12/02/2019 → 08/16/2021

Choose type of Graph
○ Trends
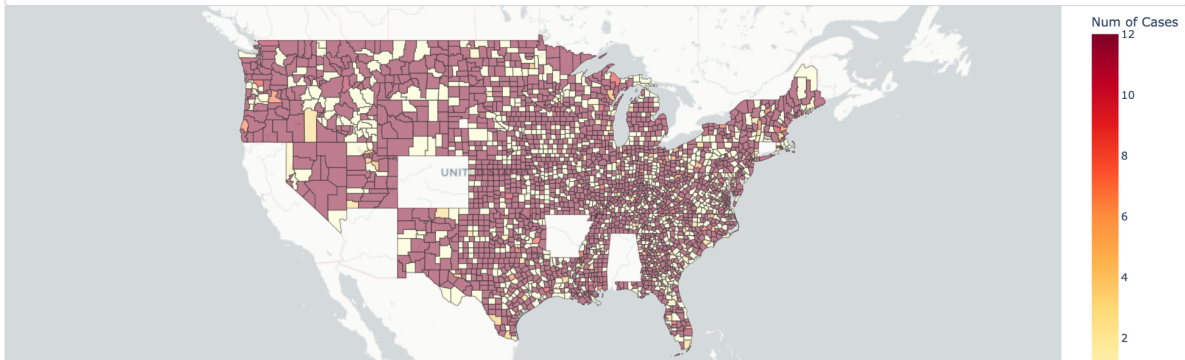◉ UsaMap
Choose a case type:
○ New Cases ◉ Deaths
Choose a mode type:
○ Linear ○ Log ◉ Avg
Select a State to view results :-

United States   ✕ ▼

Zoom into specific state / county :

Choose type of Graph
○ Trends
◉ UsaMap
Choose a case type:
○ New Cases ◉ Deaths
Choose a mode type:
○ Linear ○ Log ◉ Avg
Select a State to view results :-

United States   ✕ ▼

countyFIPS=38059
County Name=morton county
Num of Cases=395
Num of Deaths=10