Stage – IV Report

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For stage IV, we had to design a dashboard with dash and plotly to show all the data and their outcomes we have been working on so far. It would basically show the result we have accomplished so far. And our team delivered!

As we have demonstrated in our video (and below), we built a very graphical user interface that is comforting to the eye of the user, and it looks elegant as well. We have used CSS to accomplish the result. We have made a block on top to take the user input and a block below shows the output. Different inputs like the State, the County, dates, normalization type, graph type, Data type (cases or deaths), prediction model and date, and lastly 7-day moving average can be chosen on the top. The graph below gives the output accordingly. As a refresher, below is the screenshot of our dashboard.
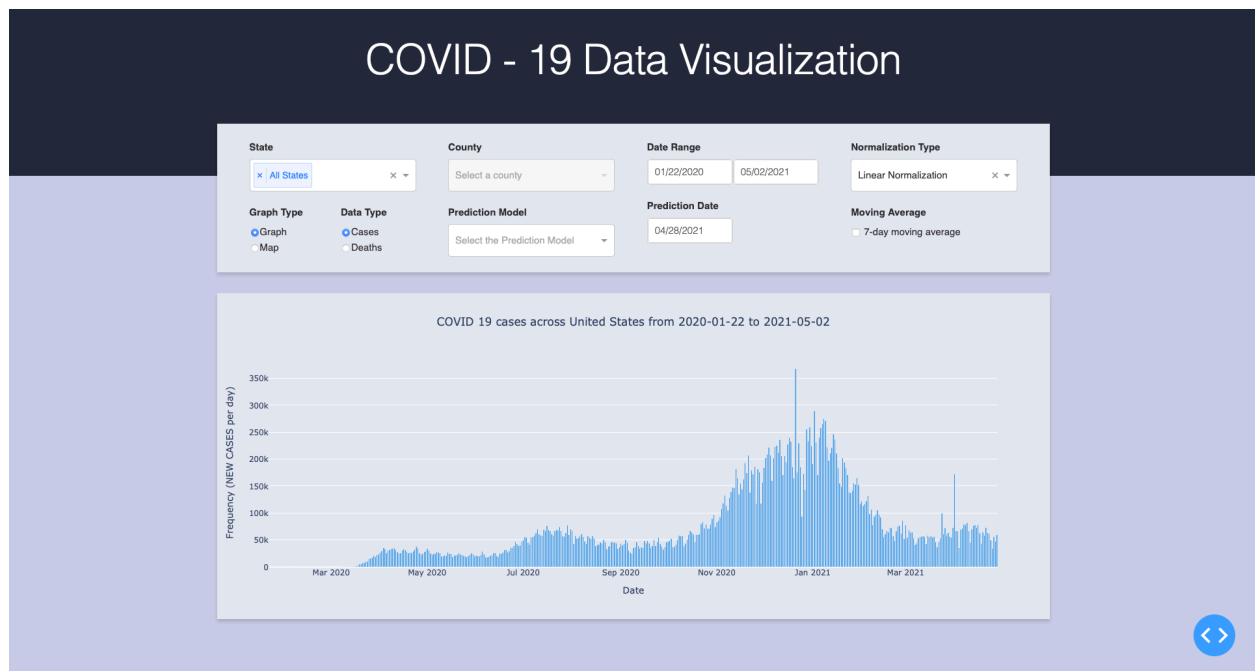
Our dashboard tool helps the user navigate the devastation that covid-19 has caused in different areas and all-over united states. We have used data

from sources that are very reliable (sources referenced in readme) to build the dashboard. Prediction model shows us the prediction of what would happen if no other variable existed, which is not the most practical way as we have not factored in the vaccine or the weather for now, but the prediction model helps us gain more knowledge and helps the user see what the actual result in some cases can be.

Overall, our dashboard can help anyone wanting to navigate the information on covid-19 that is provided from our sources. Raw data can be difficult to comprehend which is what our tool is built for. It helps the user grasp the data, maybe on a normalized level, maybe on a heat map level but it helps the end user comprehend the scenario in the United States.

This Stage was fun to accomplish, and we have loved working so far with plotly and python. Working with Dash and CSS was easy, and we are very satisfied with our result.