

For week 12's assignment I chose to do a brief analysis of COVID-19 cases in countries that I have close friends in. The API chosen has been referenced over 30 million times and can be found [here](#). The data is regularly updated and I checked the data with current statistics from each country to ensure that it is correct. The API provides realtime along with historically accurate data regarding COVID-19 cases, deaths, recoveries, etc...

I produced graphs that show current total confirmed cases along with current recorded deaths from COVID-19. The first set of data references total cases vs. current deaths. With COVID-19 being so prominent in our lives, I thought it was important to put these values into perspective, something that I have not done since the start of the pandemic. I then chose to look at total vaccinated persons. Now that booster shots are available, I was curious to know what percent of each of these countries has successfully vaccinated (meaning, two complete doses of the vaccine) have been administered. Thus, I produced the first graph (a bar graph) and the second graph (a pie chart) to best express these values.

The graphs themselves are fairly self-explanatory with data being shown in what I thought was the most efficient manner. However, formatting the graphs and getting them to plot was not something that I had experienced previously. For one, I initially could not get the data to graph and that was my own misunderstanding with how data needed to be supplied to matplotlib. The pie charts as well were continuously overlapping and I could not get the proper values to output. Overall, I think the data was successfully called from the API and was presented in an informative manner.