AIM LAB SCHOLARSHIP POSITION TEST

COVID-19 ANALYSIS

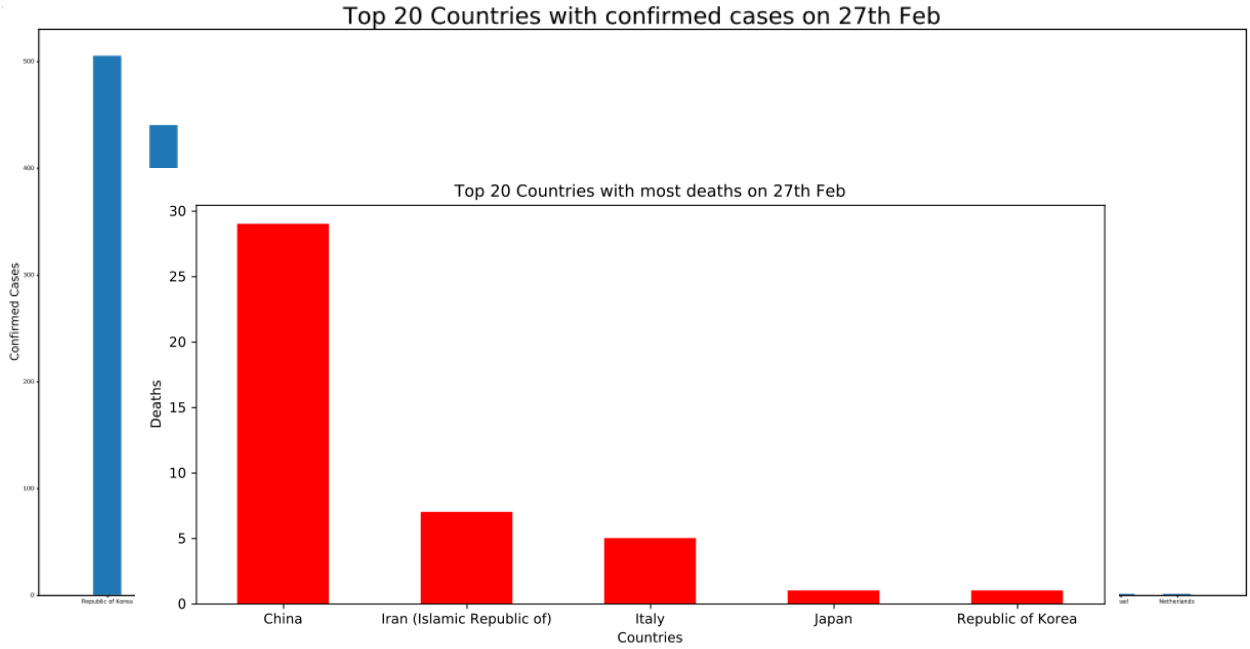
USAMA KHALID

I19-1236

MS(DS)-B

Query 1: On a given day, find the top 20 countries with the most confirmed, most death, and most recovered cases.

Confirmed Cases



The above figure shows the top 20 countries with most number of deaths on 27th Feb. Countries having zero deaths were ignored.

Recovered Cases

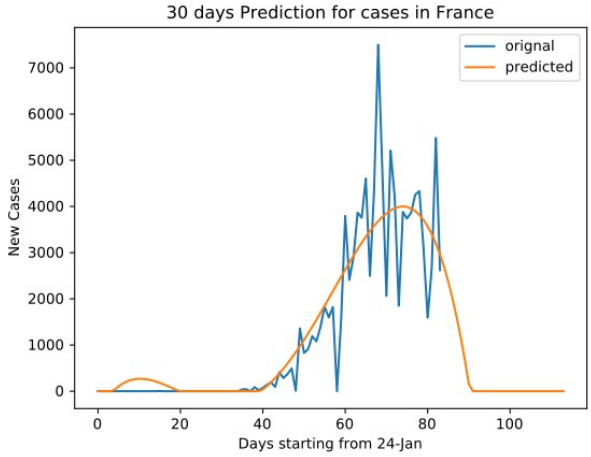
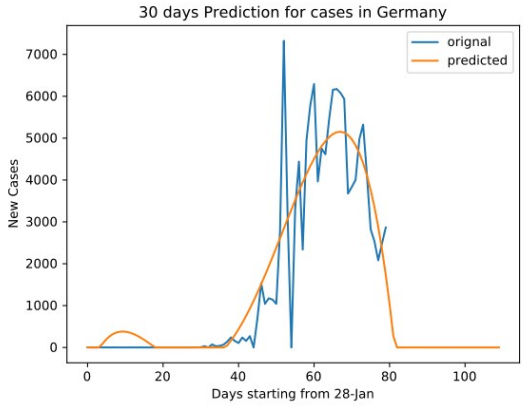
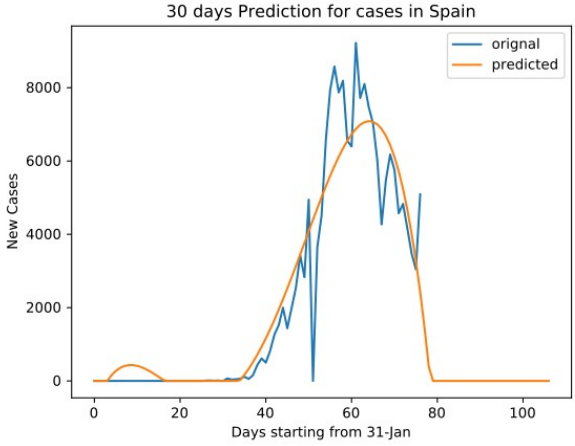
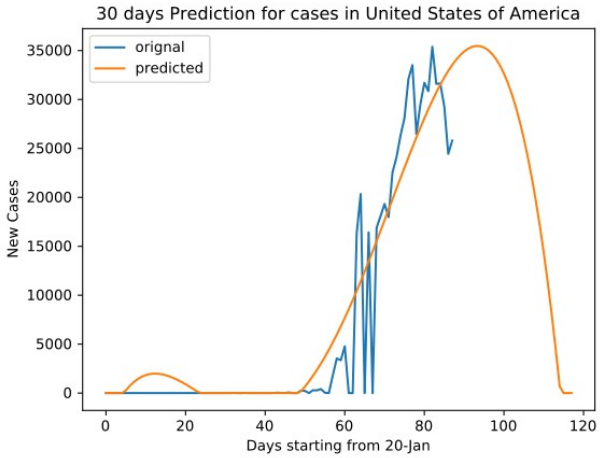
The data for recovered cases was not available in the provided dataset so analysis was not performed.

Query 2 : Find the country(s) with the highest (new cases, new deaths) between two given dates.

To calculate the highest cases between two countries I subtracted the cumulative cases for each country between the two given dates and picked the top country.

Query 3: Find the starting and ending days of the longest spread period for a given country.

If no cases encountered for four days above a previous maxima then the spread period is ended.

Query 4: Use one of the prediction methods to chart the progression of COVID-19 cases in the top 5 countries for the next 7 days and 30 days.

Below are the predictions for next 30 days of top 5 countries.