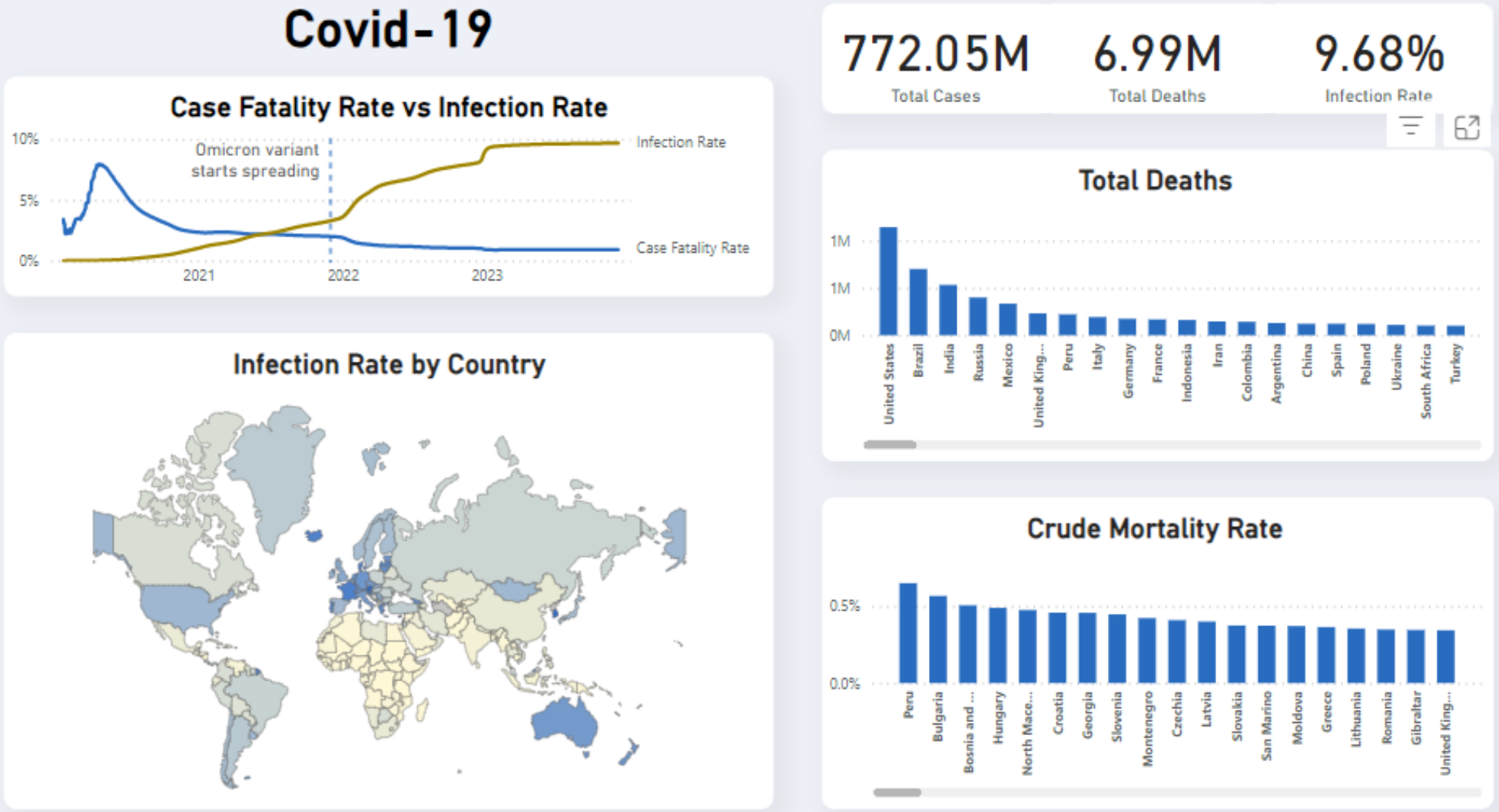
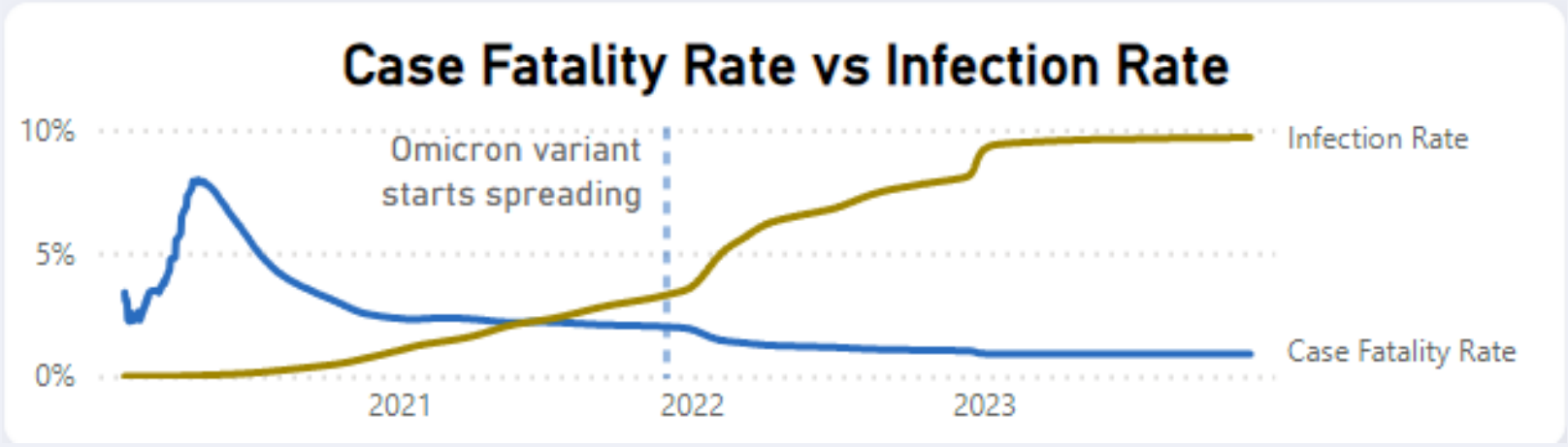
Karolina Jurkin

GitHub

NovyPro

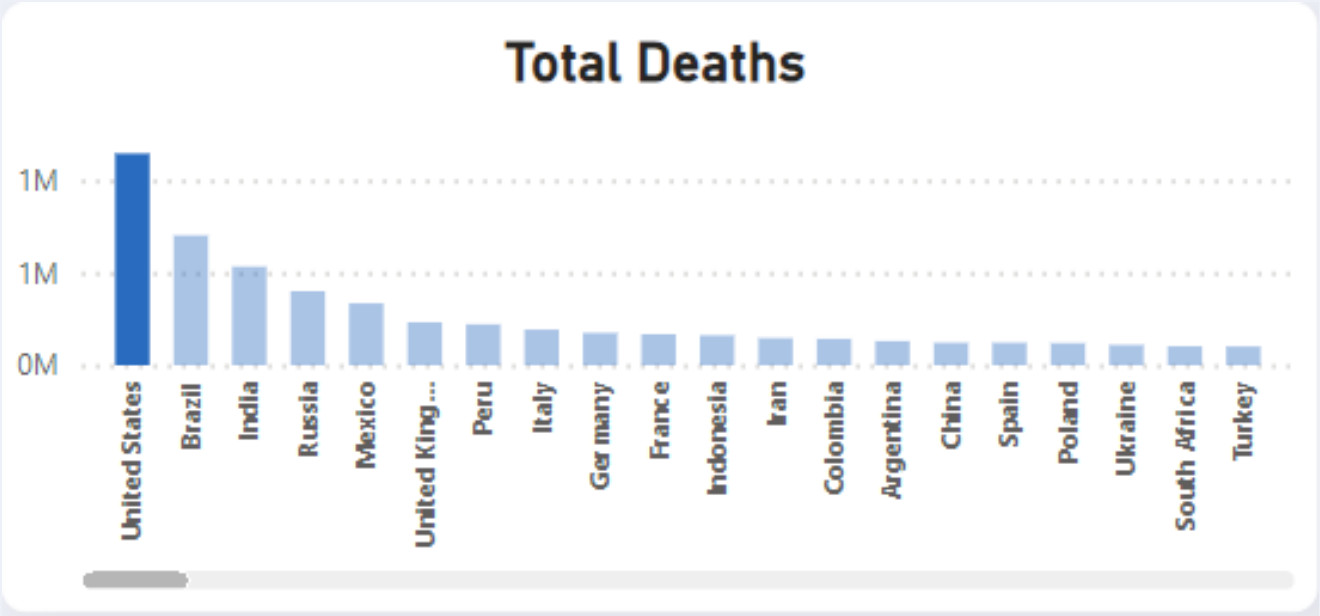


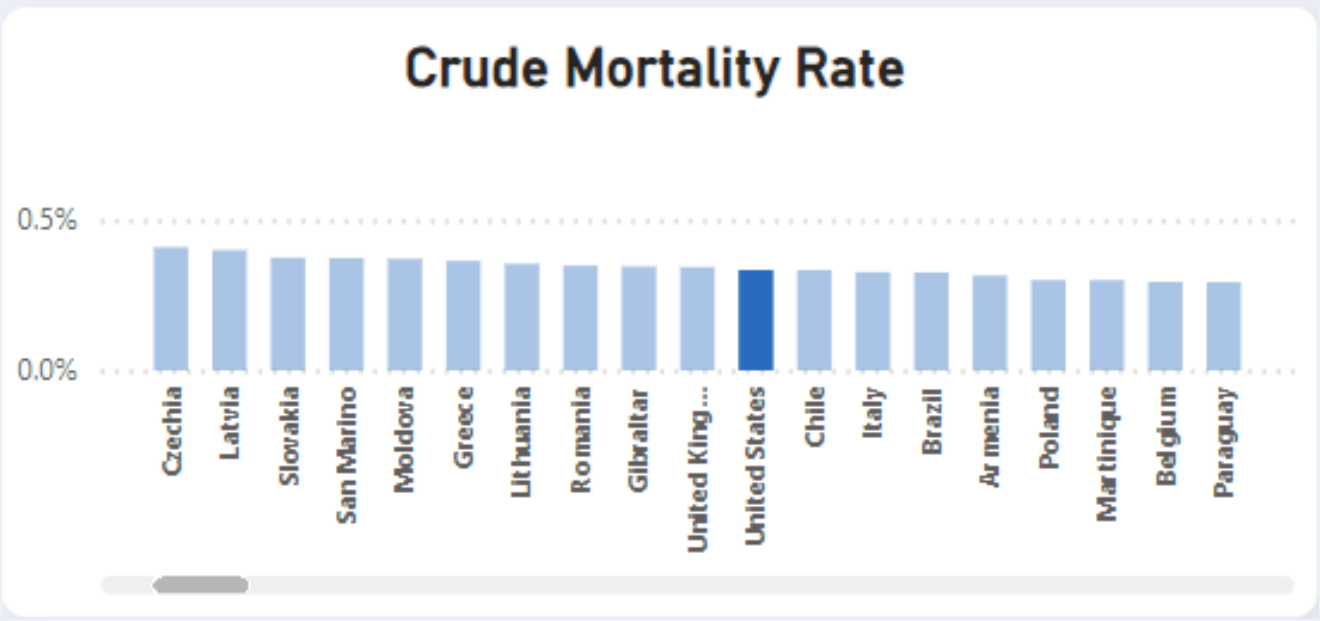


Case Fatality Rate = Confirmed Deaths/Confirmed Cases

Infection Rate (IR) and Case Fatality Rate (CFR) are undeniably correlated. Whenever we see a rise in Infection Rate the deadliness goes down. A virus that kills its host quickly may not have a chance to spread further thus the mutations in time tend to decrease CFR.

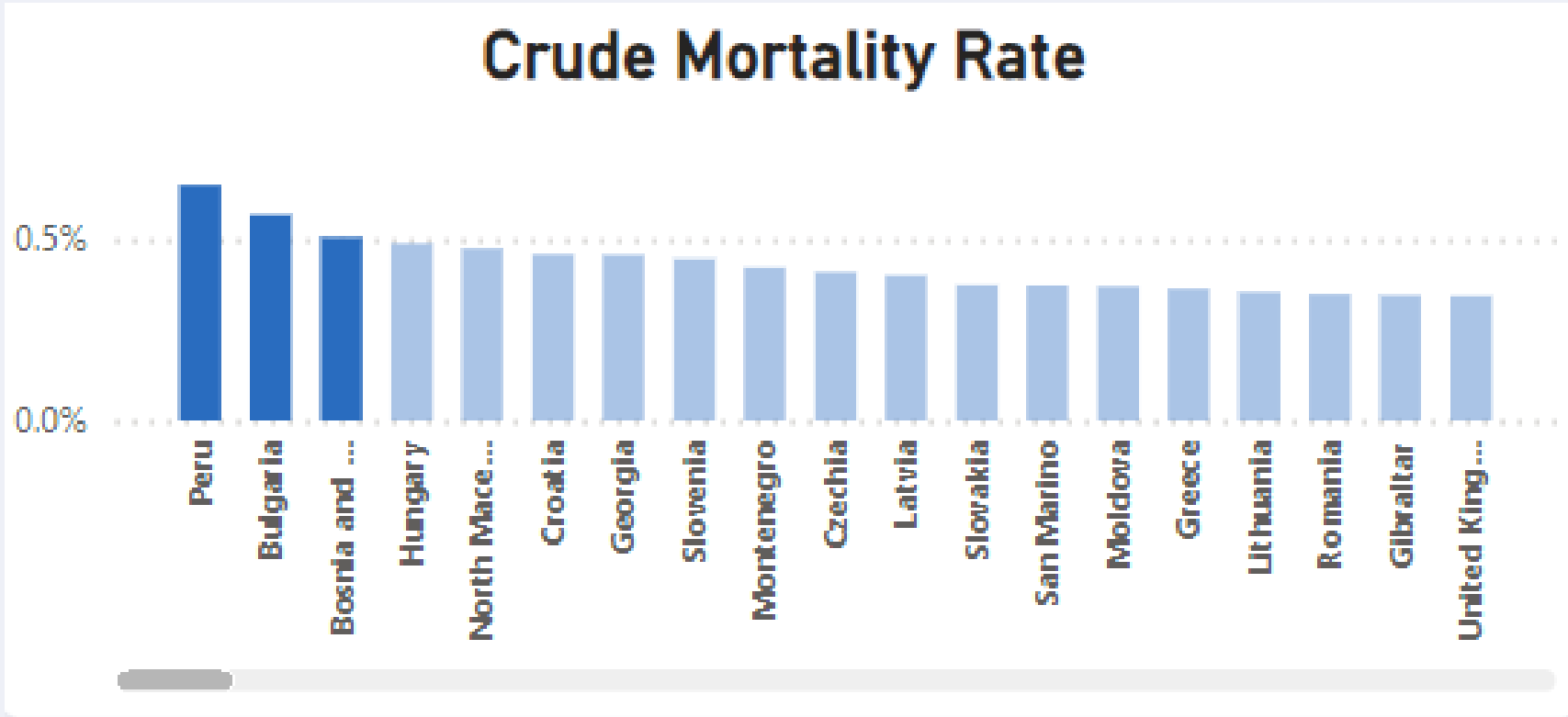
Both Infection Rate and Case Fatality Rate changed drastically over time and most definitely one of the biggest factors causing it is the mutation and different variants of the virus. We can clearly see the change in metrics right after the Omicron variant started spreading at the end of 2021.





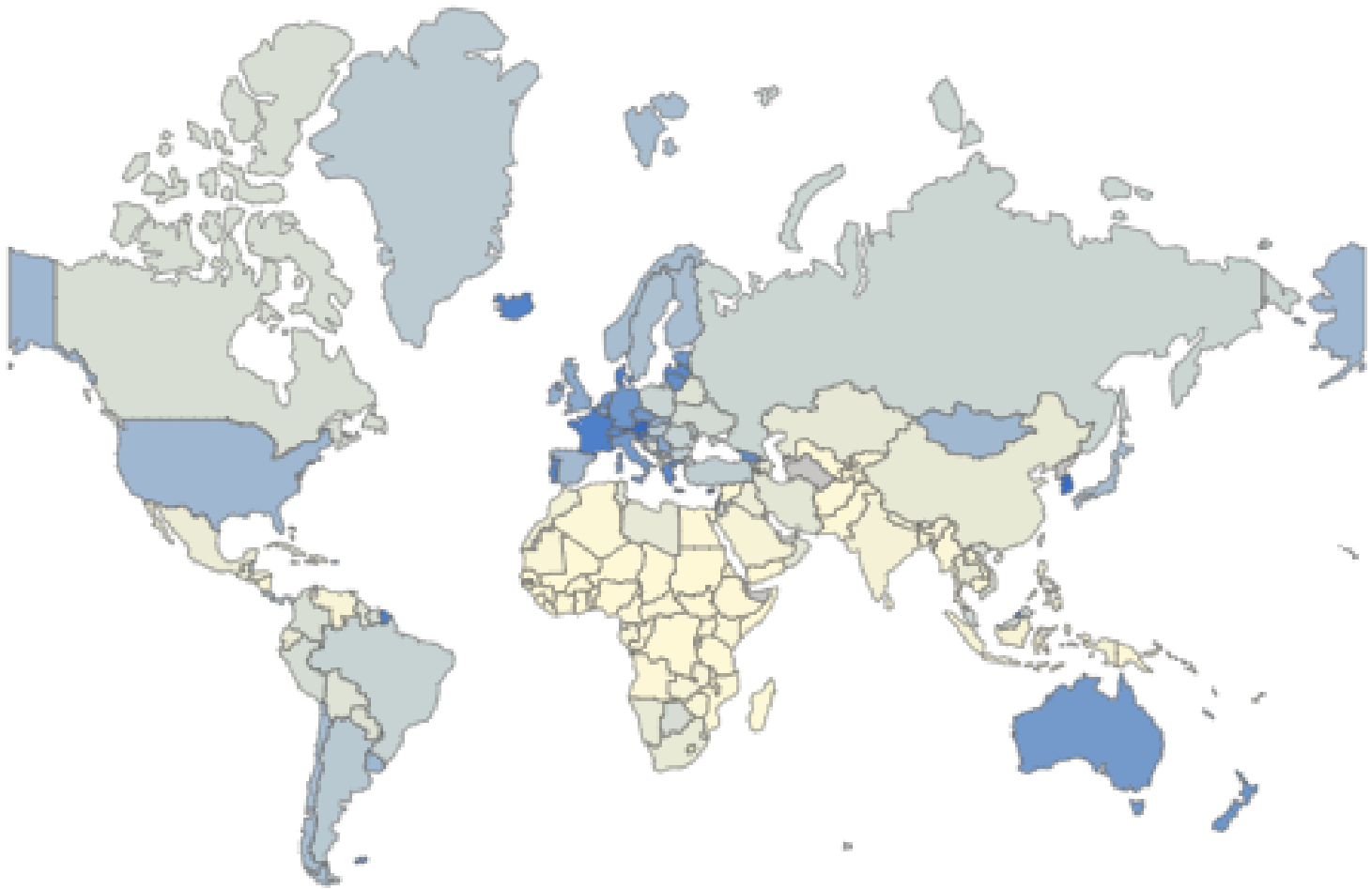
Crude Mortality Rate
=
Confirmed Deaths/
Population

Even though USA has the greatest absolute value of Total Deaths (over 1 million), its Crude Mortality Rate (CMR=0.33%) does not stand out and is comparable with most of the European countries.



The data suggests that countries that were most affected by the pandemic are as follows: Peru (CMR=0.65%), Bulgaria (0.57%) and Bosnia and Herzegovina (0.51%).

Infection Rate by Country



As we look at Africa on the map, low values of Infection Rate really stand out in comparison to other parts of the world. Further analysis would be required to come to a conclusion why such trend occurs.