Outdoor Air Pollution

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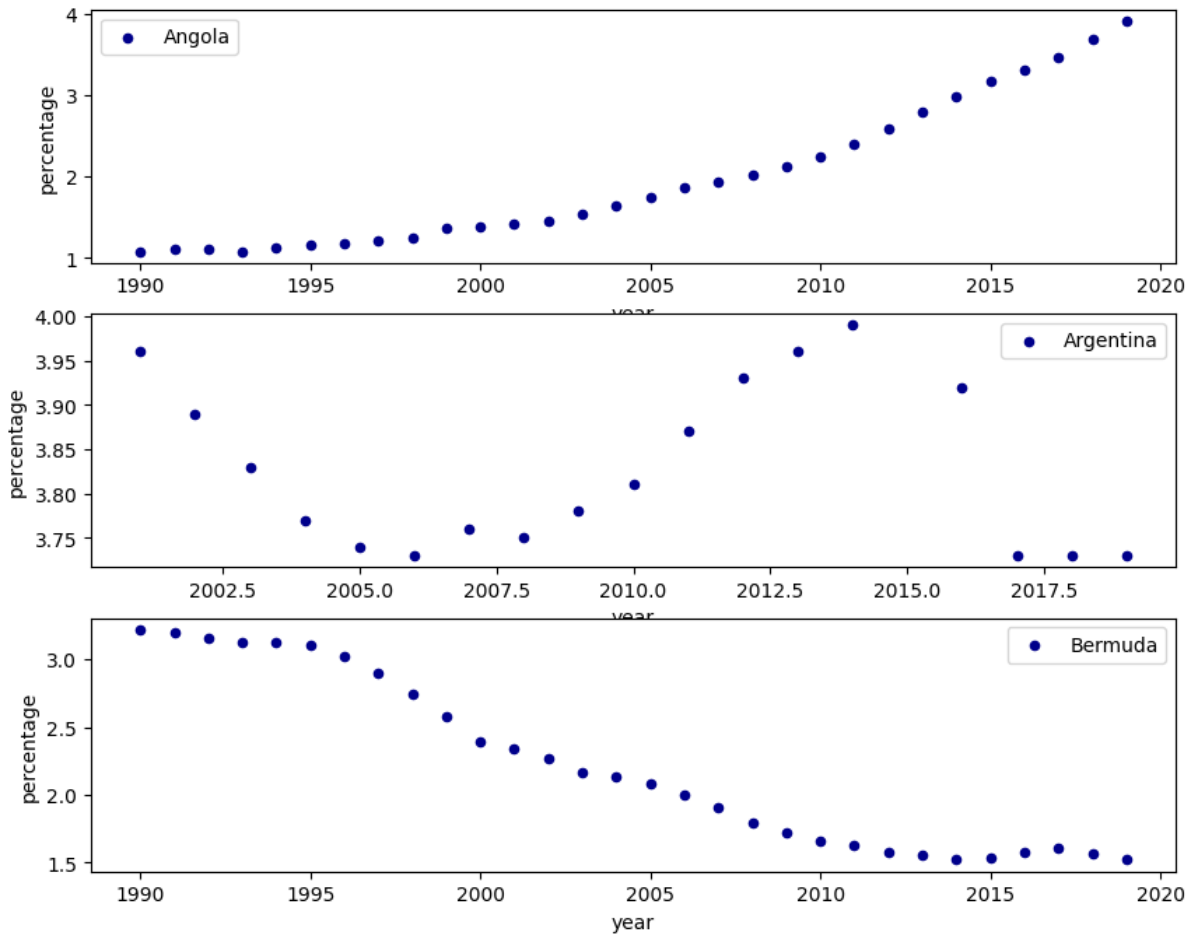
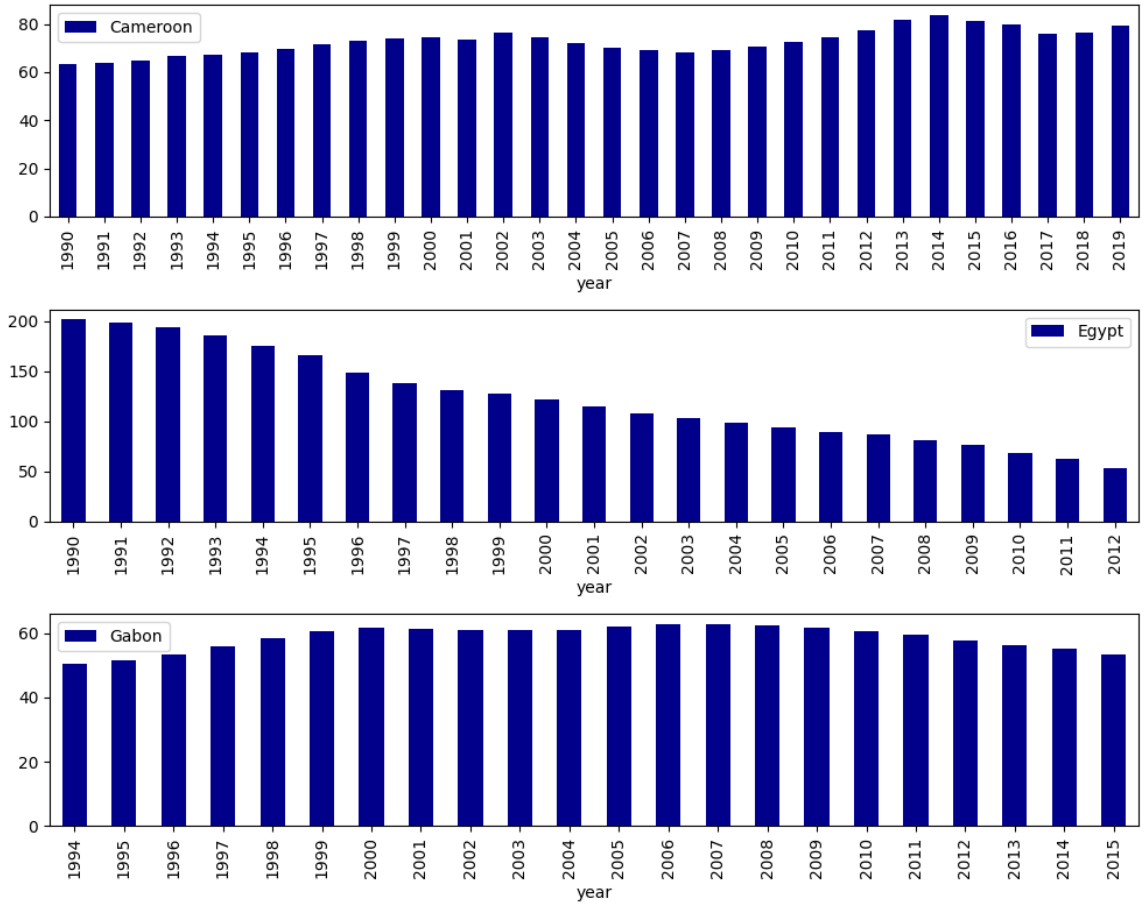
Repository link: https://github.com/baktirsukru/CS306Project

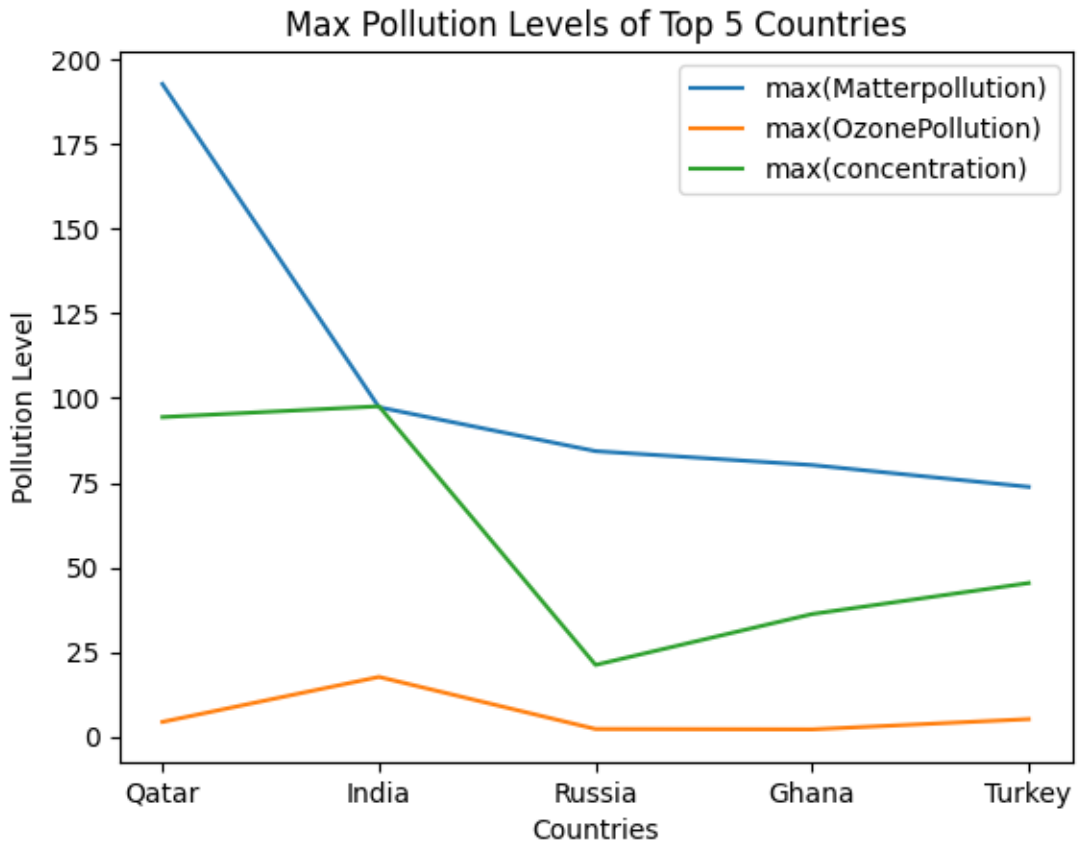
Scatter Plot: This visual is done to compare death rates caused by outdoor air pollution of three countries which are Angola, Argentina and Bermuda. From here, it can be concluded that there is a dramatic increase in rates of Angola after 2000. In contrast, Bermuda's data shows that there is a significant decrease after 1995. Lastly, a graph of Argentina monitors that there is not an explicit difference throughout the years since the percentage data fluctuates between 3.75 and 4.00 over the years.

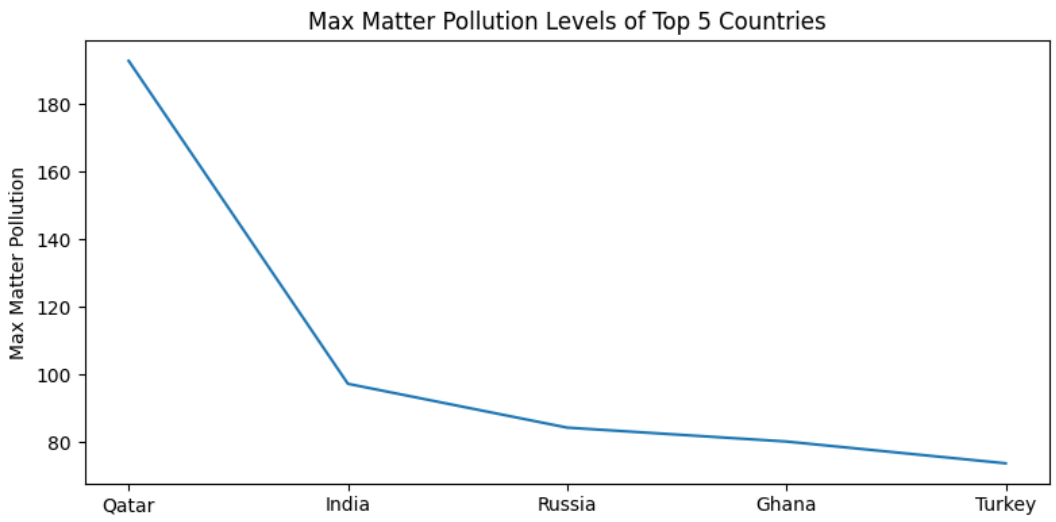


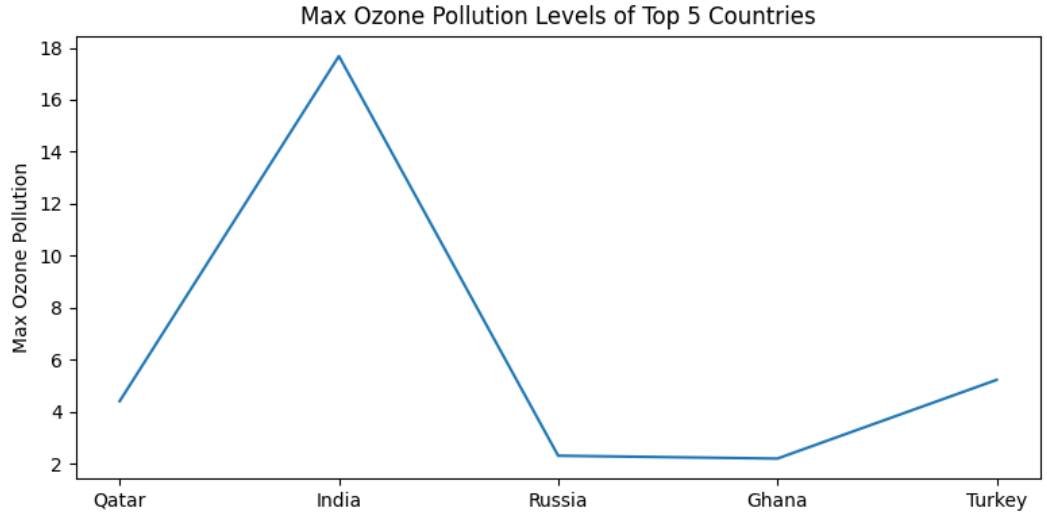
Bar Chart: These bar charts visualize the death rates of individuals under 5 years old and helps compare this statistic for Cameroon, Egypt and Gabon. Cameroon's data shows that the death rate decreased between 2002-2007 but increased overall. Gabon's death rates under 5 y.o first increased then decreased but almost stayed on the same rate in 1994 and 2015. Egypt reduced its death rates for every year and decreased it from 201.55 to 53.55.

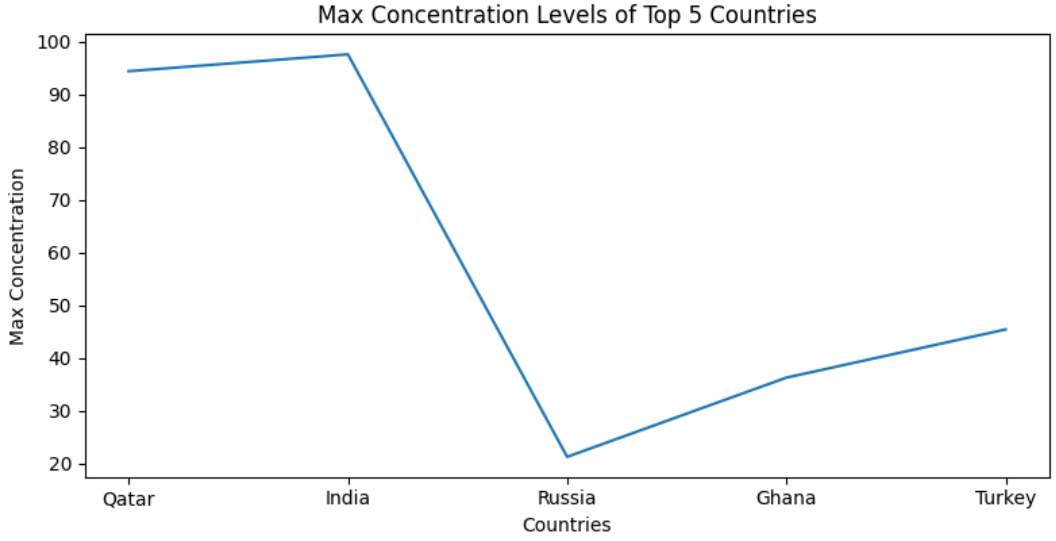


Line Charts: Line charts compare the Max Concentration, Max Ozone Pollution, Max Matter Pollution for the Max Concentration Levels of Top 5 Countries. First chart includes all in one chart. The countries were chosen from max concentration values and compared with other pollutions. (Matter and Ozone) From the charts, we can conclude that Max Matter Pollution values of countries are high.

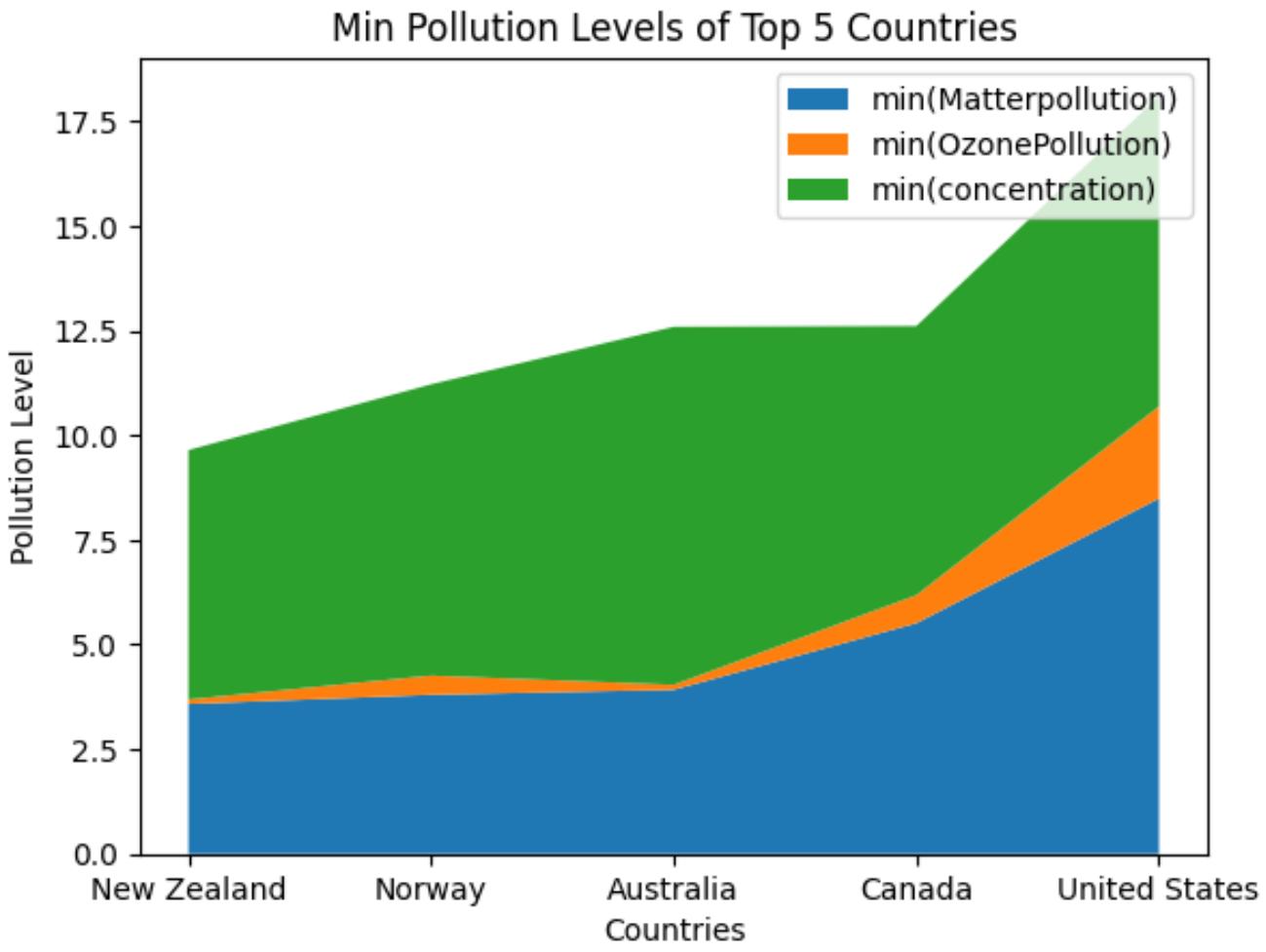



Max Matter Pollution Levels of Top 5 Countries
Max Matter Pollution
180
160
140
120
100
80
Qatar
India
Russia
Ghana
Turkey

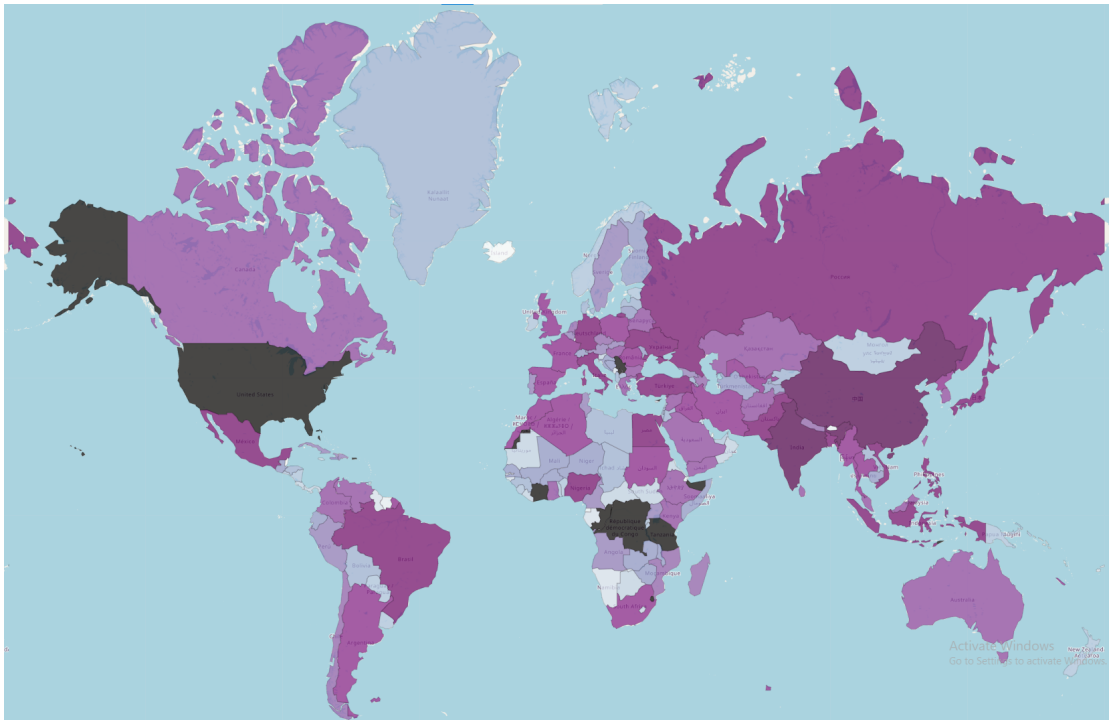

Max Ozone Pollution Levels of Top 5 Countries
Max Ozone Pollution
18
16
14
12
10
8
6
4
2
Qatar
India
Russia
Ghana
Turkey


Max Concentration Levels of Top 5 Countries
Max Concentration
100
90
80
70
60
50
40
30
20
Qatar
India
Russia
Ghana
Turkey
Countries

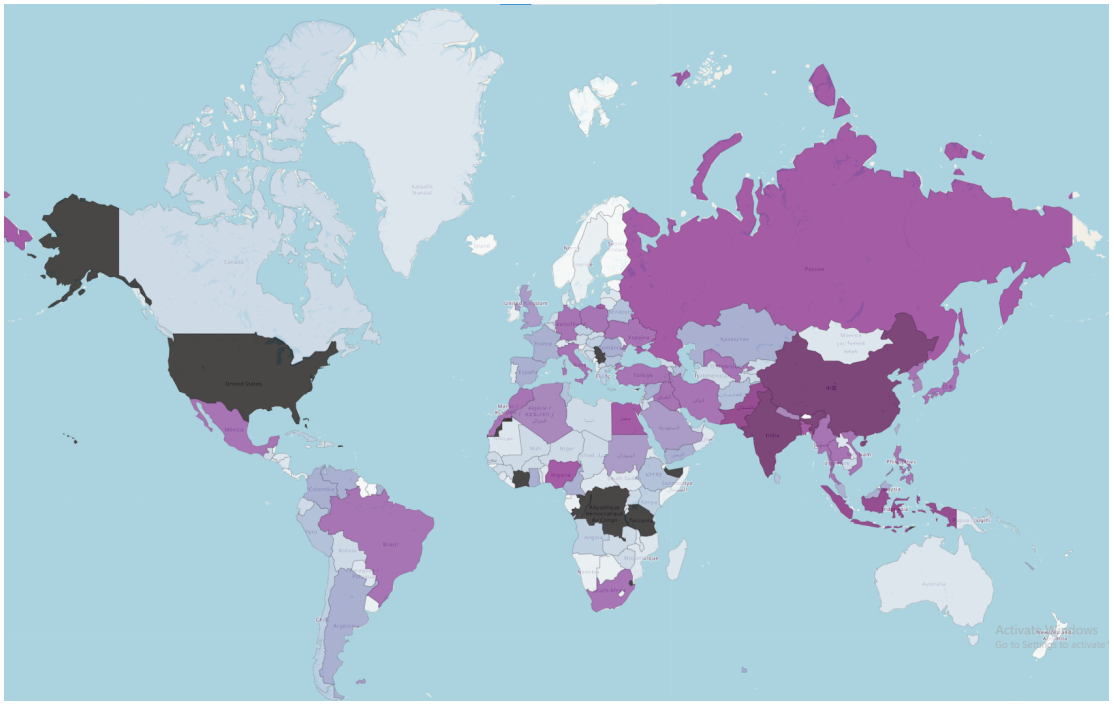
Area Charts: Area charts compare Minimum Concentration, Minimum Ozone Pollution, Minimum Substance Pollution for Top 5 Countries' Minimum Concentration Levels. When we look at the table, the minimum ozone and minimum pollution levels are close to each other, while the minimum concentration level is much higher than the other values.



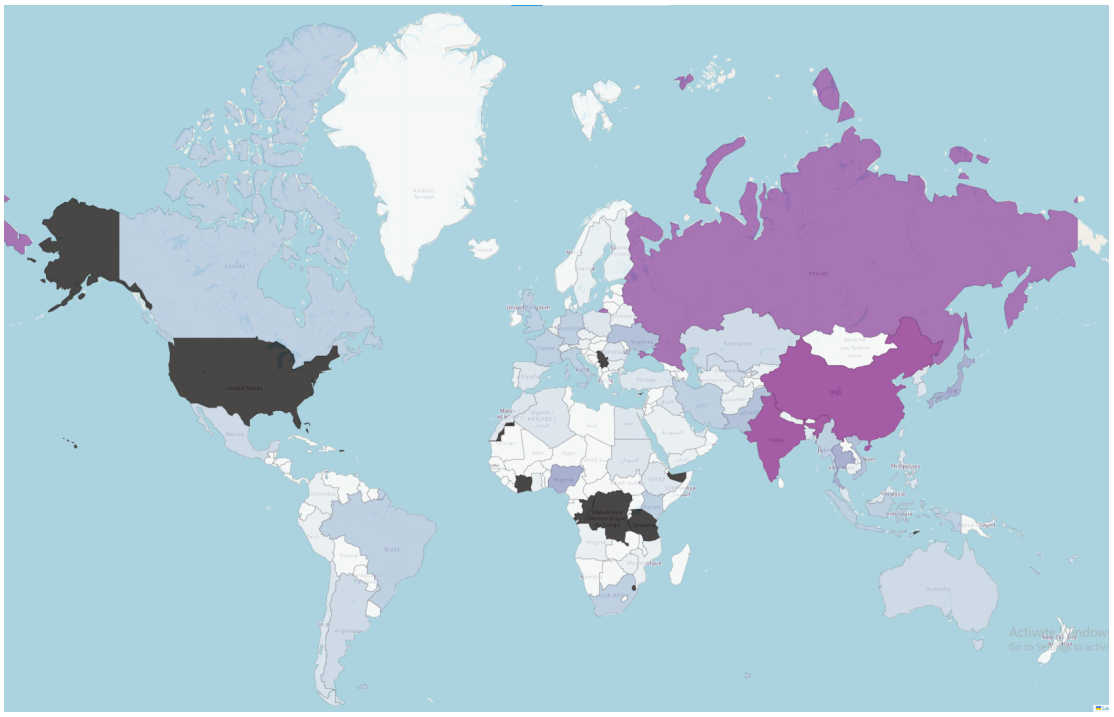
Area Maps: The area map illustrates the number of deaths caused by 3 of 5 risk factors in my dataset in 2019 across the world. We can see more deaths caused by air pollution in highly industrial countries (ex. China & India). Outdoor pollution caused more deaths than drugs. The color gradient scale on the map visually represents the intensity of each category, with lighter shades indicating lower levels and darker shades indicating higher levels. (Black regions have no data provided)



Deaths Caused by High Blood Pressure



Deaths Caused by Outdoor Air Pollution



Deaths Caused by Drugs