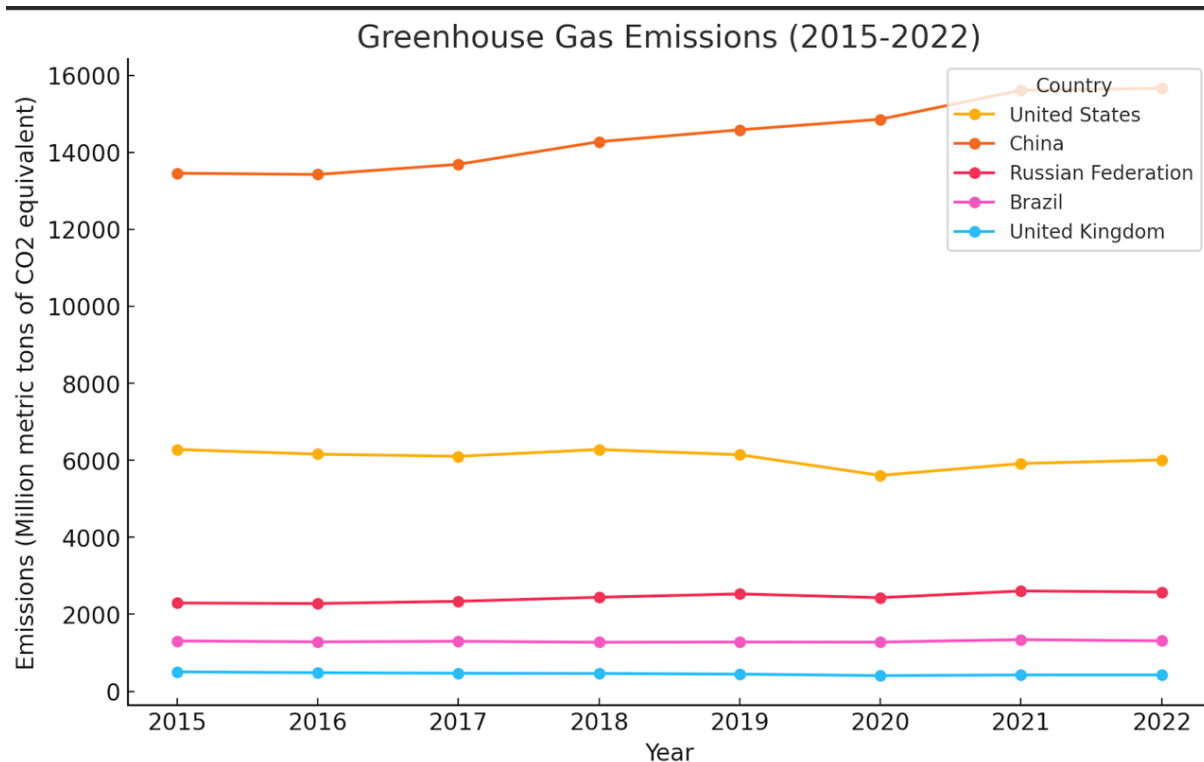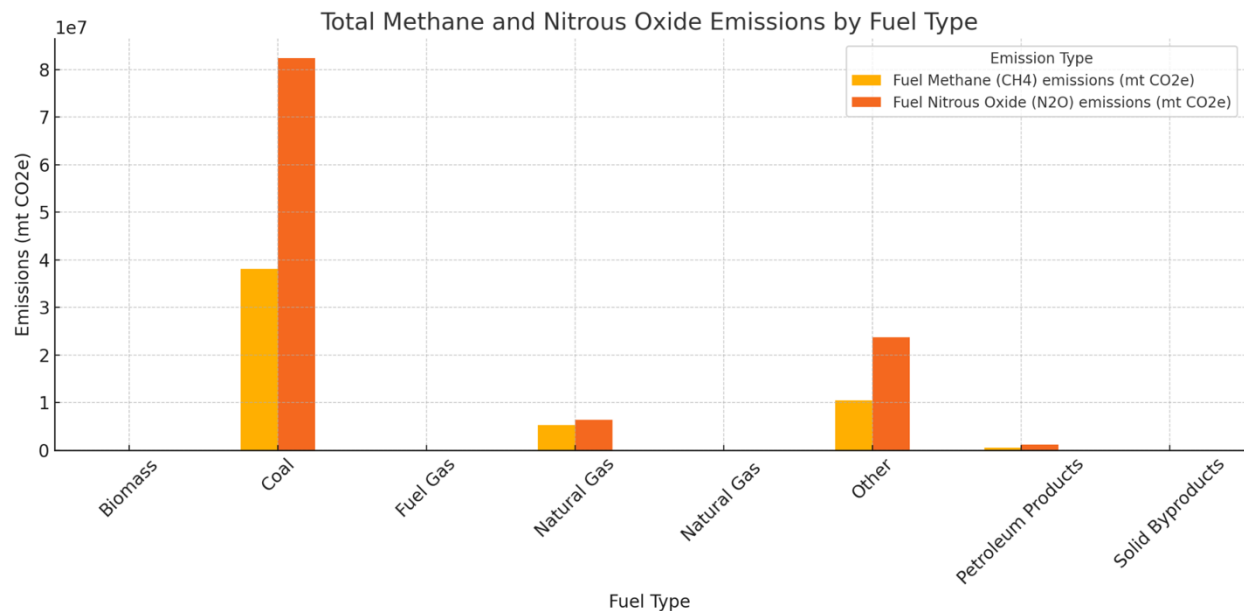Xuan Nguyen, Jaden Jensen, Elm Liengchayetz
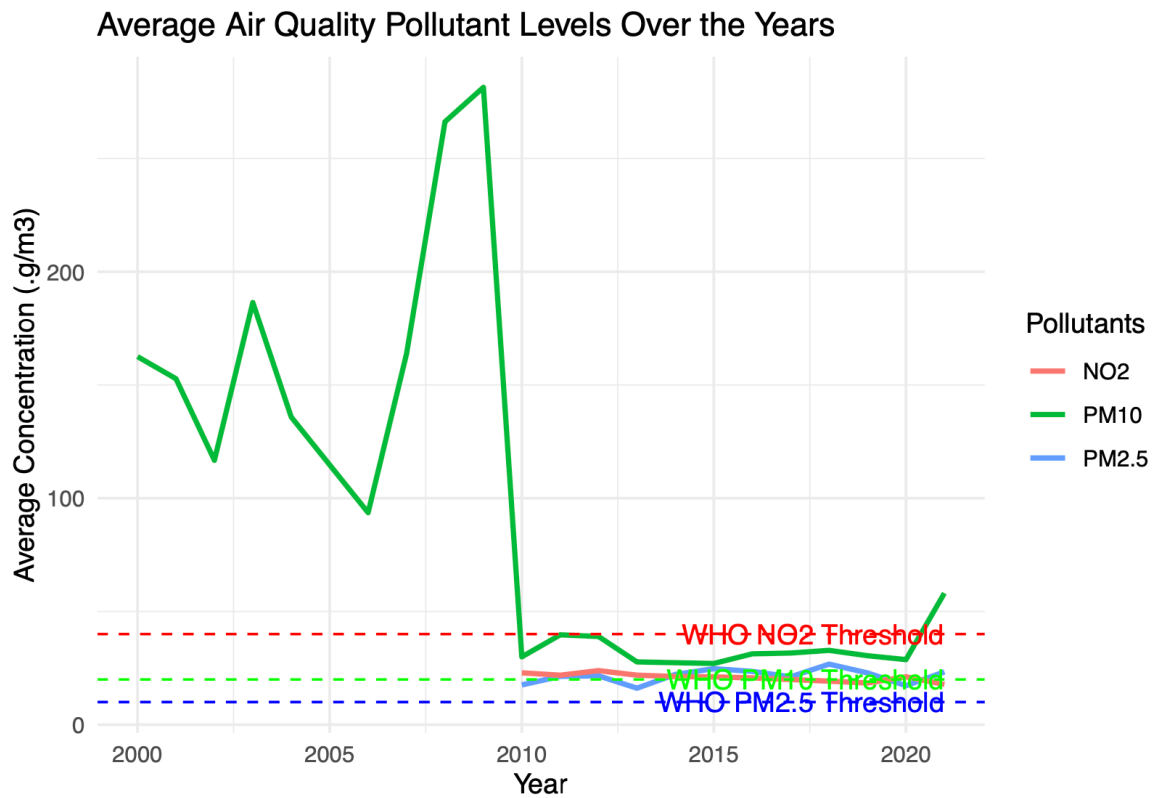
2. Second stage (due 11/10)

At this stage, you are expected to provide at least three (preliminary) visualizations for your dataset(s), along with a brief text with an analysis of them (at least 5 lines per visualization).

Our group decided to do a project on air pollution. There was a lot of data to really focus on, but I decided to pick 5 heavily populated countries to see how much greenhouse gases were produced. I found it interesting that the rates have very much been stable. Going into this I thought we would have seen a bigger increase over time just personal feelings, but it stayed the same. Just from initial thoughts we did not consider the ratio and population density which might explain why chain is leagues above the rest. I also was shocked that there was no spiked especially from China because they are heavily into the manufactory business.

Total Methane and Nitrous Oxide Emissions by Fuel Type

On the theme of air pollution, I decided to pick another leading cause which are fuel emissions. I wanted to compare the industries to see which one produces the most and Coal burning is above. I went with a bar graph because it is useful when it comes to comparison, but not good for seeing any types of trends. There is some information that is not present such as efficiently. I was shocked to see how much coal burning is still used today when we have developed so much cleaner types of energy sources (Wind, Solar, Nucellar). I also broke down the type among the industries comparing Methane vs Nitrous Oxide. I think this graph helps guide our attention from what I thought would be Cars being the highest to focusing on Coal burning.

Average Air Quality Pollutant Levels Over the Years

For this graph I did not divide the country but rather compared us collectively. The three types of air pollutants I decided to look at are NO2, PM10, and PM2.5.NO2 is Nitrogen-Dioxide mainly gas, PM10 is a mixture of gas and liquid, and PM2.5 are small particles. Other than the huge spike and dip things are getting better over time. This type of trend could mean that we are just doing better and being more concisions.