**Project – 3**

Problem Statement:???

Data – for year 2021  
(AQI-data 2021

Hypotheses: **Higher Natural Gas Consumption Leads to Poorer Air Quality** We assume that states with higher natural gas consumption will have poorer air quality due to increased emissions.

1. **Correlation Between Natural Gas Consumption and Air Quality**: To find out whether there is a significant correlation between natural gas consumption and air quality levels across different regions in 2021.
2. **Impact of Seasonal Natural Gas Consumption on Air Quality**: Analyze how seasonal variations in natural gas consumption influence air quality, focusing on the comparison between winter and summer months.
3. Natural Gas Consumption and Air Quality: A State-Level Comparison (States with higher level of consumption and air quality data with states with lower levels of natural gas consumption with their air quality data)