Trends in Educational Attainment Across Selected Characteristics

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The goal of this project is to determine the status and trends of the air quality index for selected cities across North Carolina. The questions we aim to answer through this project include if the selected weather parameters have a significant impact on air quality. Additionally, is there a relationship between high temperatures and air quality index. Finally, we will also explore the relationship between air pressure and air quality across selected cities. We hope to include data from North Carolina, the United States, and other international cities. All of the data needed for this project will be provided by the IQAir Visual API.

The work for this project will be divided as follows:

Alex: Will use pandas to clean and format the census data sets on the selected air quality parameters for selected international cities. Will create a jupyter notebook which details the data exploration and clean up process used.

Nishi: Will create a jupyter notebook for heat maps for NC cities. As well as final data analysis for the air quality relationships of interest.

Nadire: Will use matplotlib to create 2 data visualizations for the air quality parameters in NC and write a summary of major findings.

Shi: Will use matplotlib to create 2 data visualizations for international cities and write a summary of major findings

Ahnaf: Will use matplotlib to create 2 data visualizations for the air quality parameters across the United States set and write a summary of major findings.