
Predicting NC Air Quality Index

Team 4

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Discussion Outline

1. Predicting Air Quality Index

- a. How and why

2. Data

- a. Source of data
- b. Goal of analysis

3. Technologies

- a. Technologies, languages, tools utilized

4. Analysis

- a. Results

5. Future Recommendations

Predicting NC Air Quality Index (AQI)

The WHY

- Assist people with respiratory illnesses to determine if safe to engage in outside activities
- Information for people/families moving to NC to determine which region may best suit respiratory medical needs



The HOW

- Using various tools and Kaggle dataset predict AQI in regions across NC based on time period
- App based tool for ease of use in Phase 2

The Data Questions



Does Air Quality vary by time of year?

What AQI is safe/unsafe for the respiratory system?

Does population density have an effect on AQI?

Does location have an effect on AQI?

What region of NC best suits someone with respiratory illness?

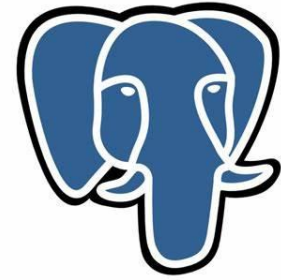
The Dataset

Technologies Utilized

Analyzing/Cleaning Data



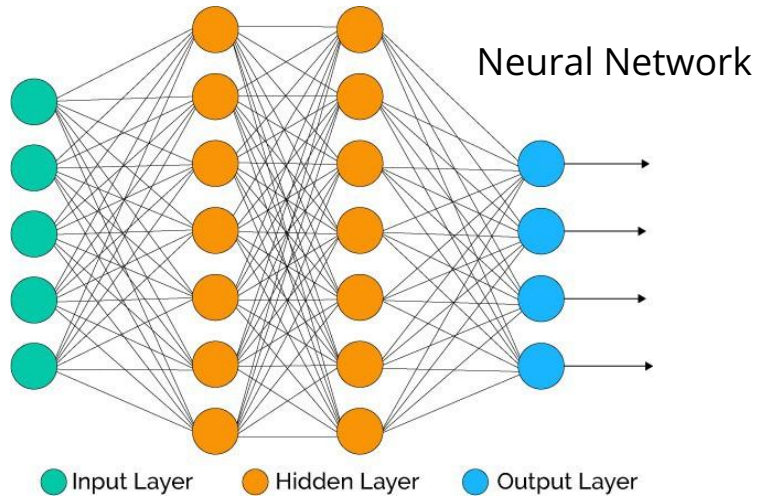
Database



PostgreSQL

Technologies Utilized

Machine Learning Model



Dashboard



Database Details

Machine Learning Details

Data Analysis Results

Data Visualization - insert Tableau?