

# Air Quality Report

## Description

Air quality is a very important metric. People should avoid going outside when the air quality index (AQI) is very high, as the pollutants can negatively affect respiratory health. This application will provide real-time information on the AQI in the Washington, D.C. area, helping residents make informed decisions on when to go outside or take necessary precautions. We will also be able to study the historical air quality and weather data to determine any trends or correlation, helping everyone see how these two are linked.

## Sample Questions

- Get the current AQI for the target area.
- Get the current weather conditions: temperature, humidity, wind speed, and atmospheric pressure, for the target area.
- Provide comparison between the air quality and atmospheric conditions for correlation analysis.

## Subject Areas

- Air quality data
- Weather data

## Sample Measures

- PM2.5 concentration
- PM10 concentration
- Temperature
- Humidity
- Atmospheric Pressure
- Wind Speed

## Visualizations

- A line chart showing AQI in real-time at the target area.
- A line chart showing the weather parameters (temperature, humidity, etc.) in real-time at the target area.
- "Cards" displaying the current values of the air quality as well as the weather parameters for the day.