

AIR QUALITY IN DUBLIN USING IOT AND MACHINE LEARNING



PROBLEM STATEMENT

Data Collection using DPD vehicles equipped with sensors

PREDICTION

RESULTS

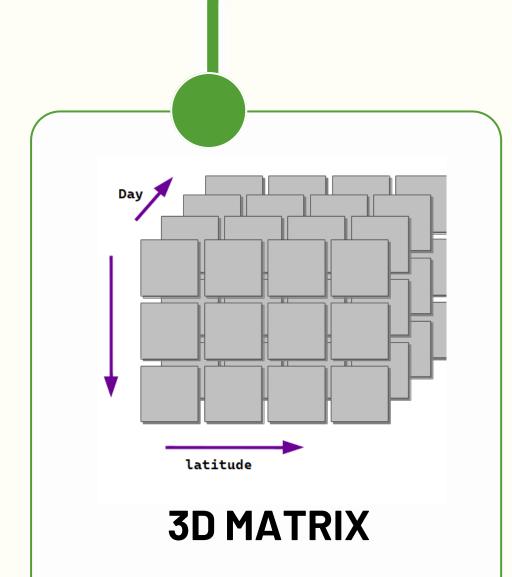
- Air Quality Indicators: pm2.5 and pm10, GPS coordinates, date and time
- Handling Missing Values: (~80% missing values)
- Spatial Missing Values: Unequal distribution of data Temporal Missing Values: Days with little or no data

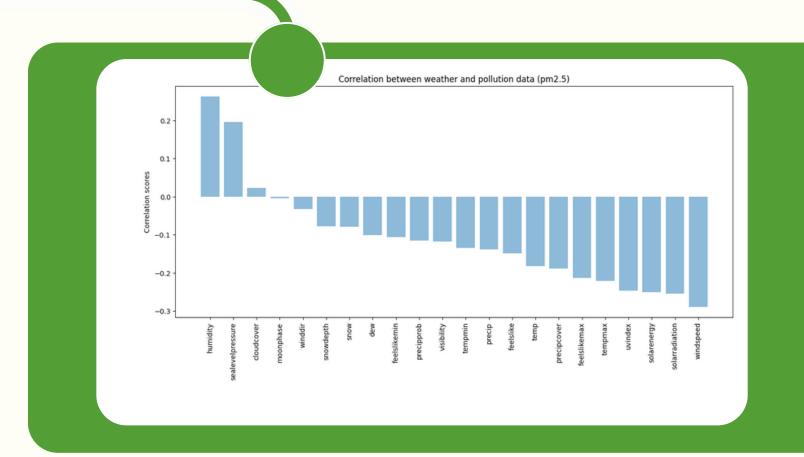
Objective:

Create a complete and reliable dataset for in-depth analysis of air quality in Dublin

PREDICTION

RESULTS





MSE, MAE and R2 values for different models without weather data

CORRELATION WITH WEATHER DATA



