# Air Qulity - Regression in Python

The dataset contains data of hourly data of a particular location along with the PM2.5 particles , SO2 and O3 concentration in the air.

## Dataset

Dataset used in this project can be found here.

## Install

### Supported Python version

- Python version used in this project: 3.7

### Libraries used

- Pandas 0.25.0
- Numpy 1.17.0
- Matplotlib 3.1.1

## Code

The code used in this project is inside: O3 Linear Regression.ipynb
PM2.5 Linear Regression.ipynb
SO2 Linear Regression.ipynb

## Run

To run this project you will need some software, like Anaconda, which provides support for running .ipynb files (Jupyter Notebook).

Data files :

AN142_2015.csv

hourly_42401_2015.csv

hourly_44201_2015.csv

hourly_88101_2015.csv
After making sure you have that, you can run from a terminal or cmd next lines:

**ipython notebook O3 Linear Regression.ipynb**

**`jupyter notebook` O3 Linear Regression.ipynb**