When user input country 🡪 set request through flask (to python) 🡪 python grab data from sql and send back jsonify(data) 🡪 data used to create Heatmap 🡪 output to screen

Grab air quality data use it to show users and save it to database of my own. (mongoDB)

Front page will contain globe with heatmap of AQI.

When region is clicked show concentration of pollutants and news info (explanation will be on website all the time no matter which region)

Scrape and analyze regional news and provide today’s information about the weather and what might be the cause of good/bad AQI today. (ex: volcanoe eruption may cause bad AQI just for few days.)

* Get large dataset on today’s news
* Only find relevant info using NLP, semantic search.

Provide information about their current condition on air quality.

* AQI, Pm2.5, pm10, O3, NO2, SO2, CO (explanations would be nice)
* Legends.
* Filter for particular molecule.

Problems they are facing

How it can be resolved

Scrape twitter/news sentiment analysis, current weather

What was the weather/air quality like on the same day in previous years.

Measurement unit used:

**Ppm**: parts per million

* ppm is a volume-to-volume ratio, which makes it independent of local temperature and pressure.

Ozone:

* Ozone pollution, usually talking about tropospheric ozone 🡪 0~10km in height.
* and more particularly the surface concentration which matters in order to quantify the health impact. Moreover, the tropospheric Ozone is having a diurnal cycle, with pollution peaking in the afternoon when the temperature reaches its maximum, and almost no pollution during the night.