



SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

A Skill Development Program Report

on

Power Bi

Topic: Air Pollution

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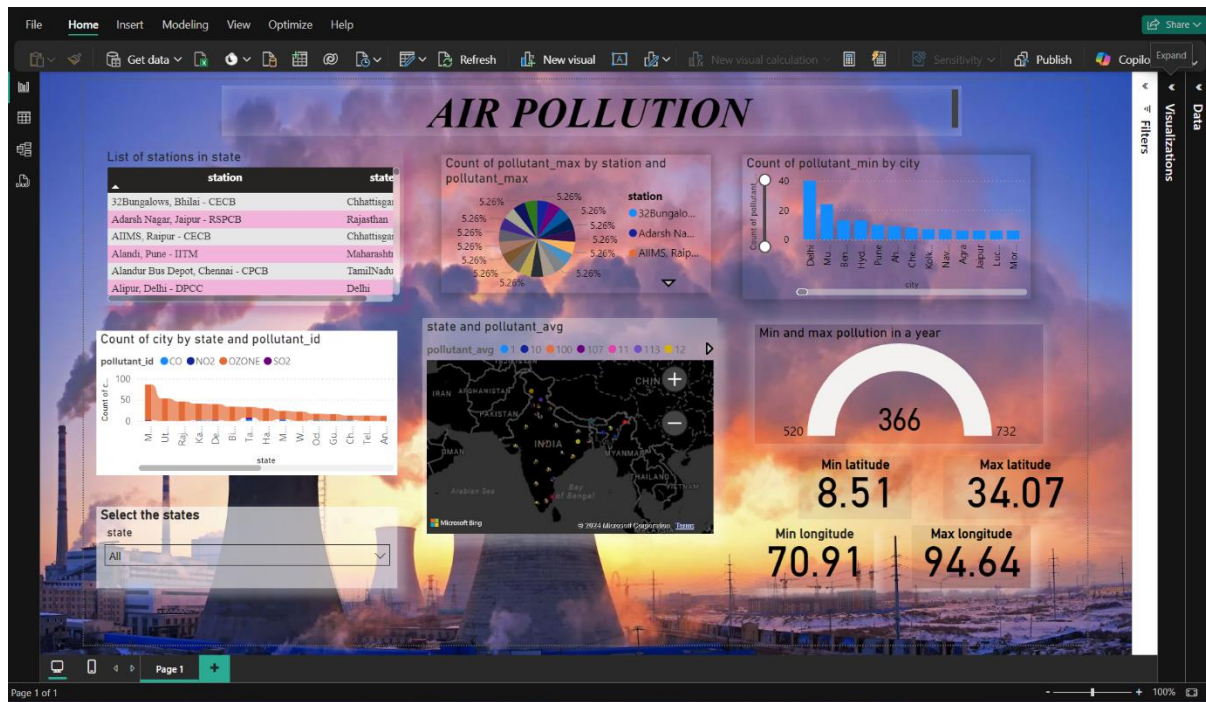
Submitted on: November 8,2024

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AIR POLLUTION

This Power BI report provides an in-depth look at air pollution trends, stations, sources, states, latitudes, longitudes etc. It visualizes key air quality metrics, including pollutant levels over time, sources of pollution, and affected areas by states and cities. With interactive charts and data insights, users can explore how air quality changes, identify patterns, and understand the potential effects on health and the environment.



Entire view of the dashboard-Air pollution

1. List of stations situated in states:

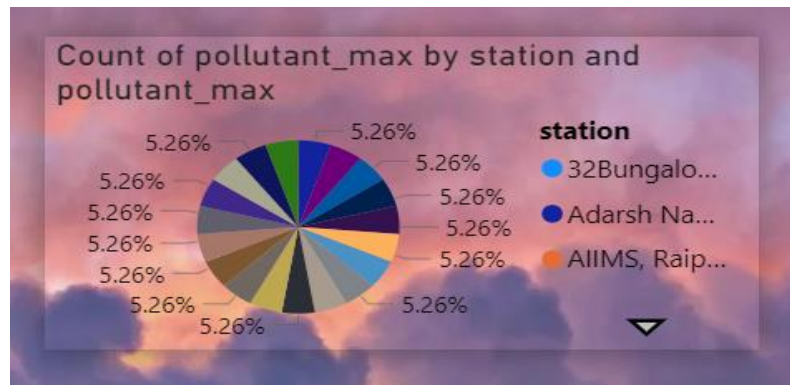
We have built the table visual field here. The columns are stations and in which state is that station situated.

List of stations in state	
station	state
32Bungalows, Bhilai - CECB	Chhattisgarh
Adarsh Nagar, Jaipur - RSPCB	Rajasthan
AIIMS, Raipur - CECB	Chhattisgarh
Alandi, Pune - IITM	Maharashtra
Alandur Bus Depot, Chennai - CPCB	TamilNadu
Alipur, Delhi - DPCC	Delhi

List of stations situated in states

2. Count of maximum pollutant by station:

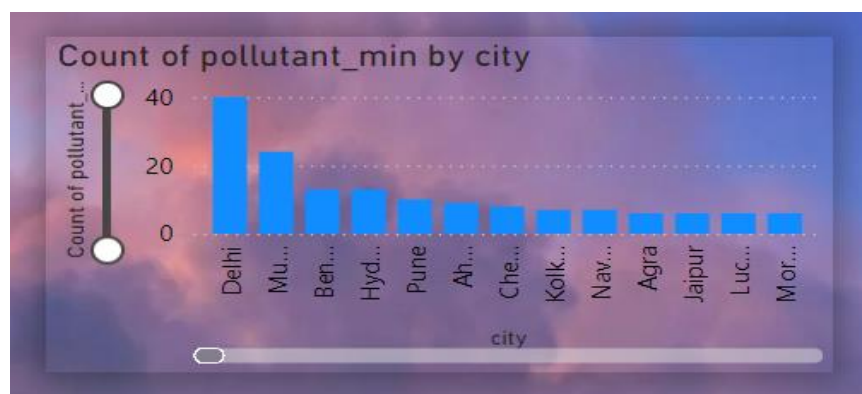
We have built a pie visual field here. Based on stations maximum pollutant is shown in the slices.



Count of maximum pollutant by station

3. Count of minimum pollutant by cities:

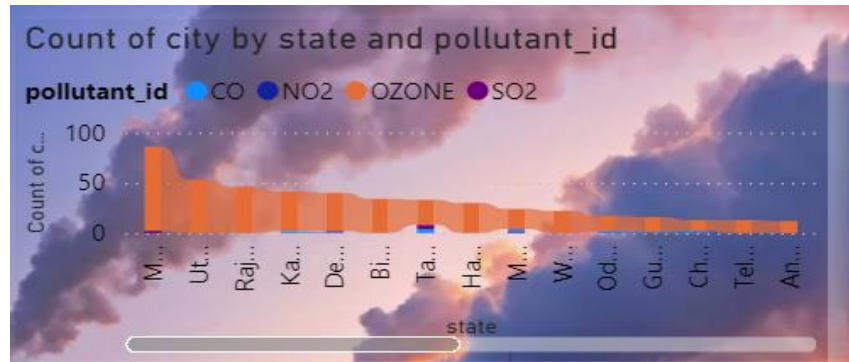
We have built a scattered column visual chart here. Here X-axis takes as city and Y-axis takes as min pollutant count. Each column bar depicts the amount of pollutant for each city.



Count of minimum pollutant by cities

4. Count of city in state by source of pollutants:

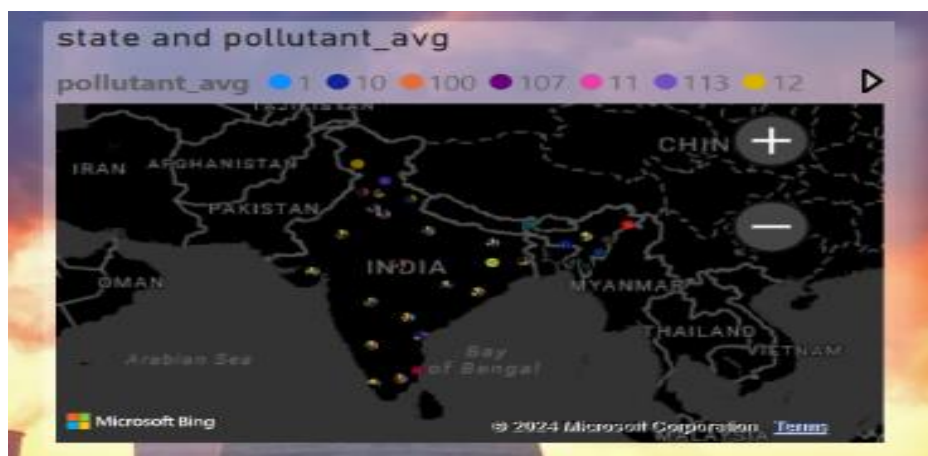
We have built the ribbon chart visual here. Here the source of pollutants in the state for each city in count is displayed here.



Count of city in state by source of pollutants

5. State and average pollutant:

We have used the Map visual here. Here we mapped the country with states and average pollutant here.



State and average pollutant

6. Minimum and maximum pollution in a year:

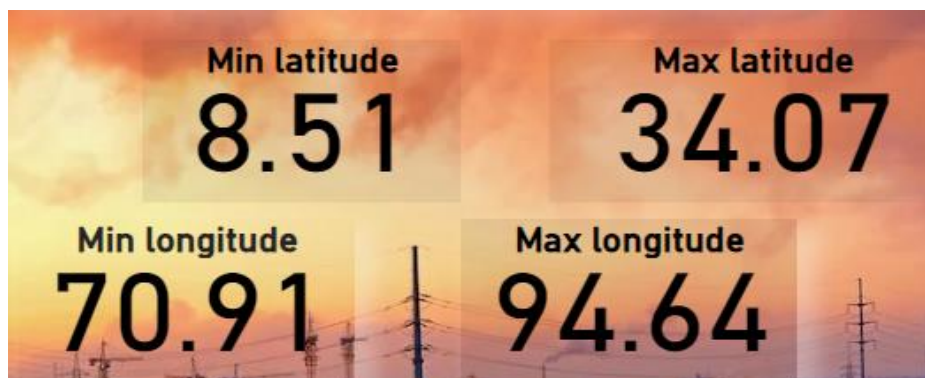
We have used Gauge visual here. Here we show the minimum pollution and maximum pollution in a year.



Minimum and maximum pollution in a year

7. Minimum and maximum values of latitudes and longitudes:

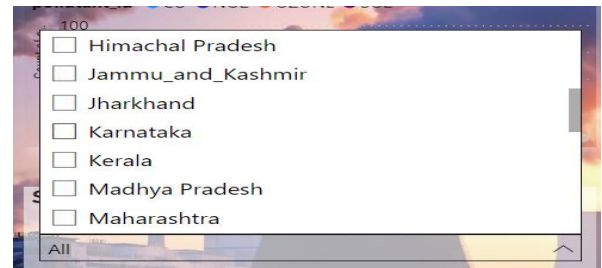
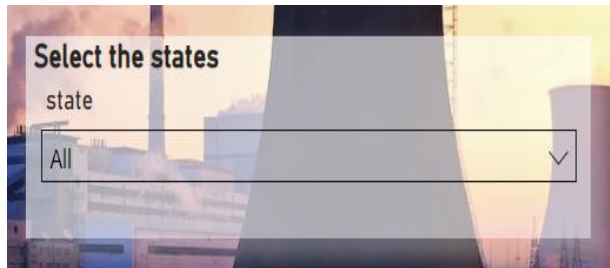
We have used the card visual here. The minimum and maximum of latitude and longitude of particular is shown here.



Minimum and maximum values of latitudes and longitudes

8. Selecting the states:

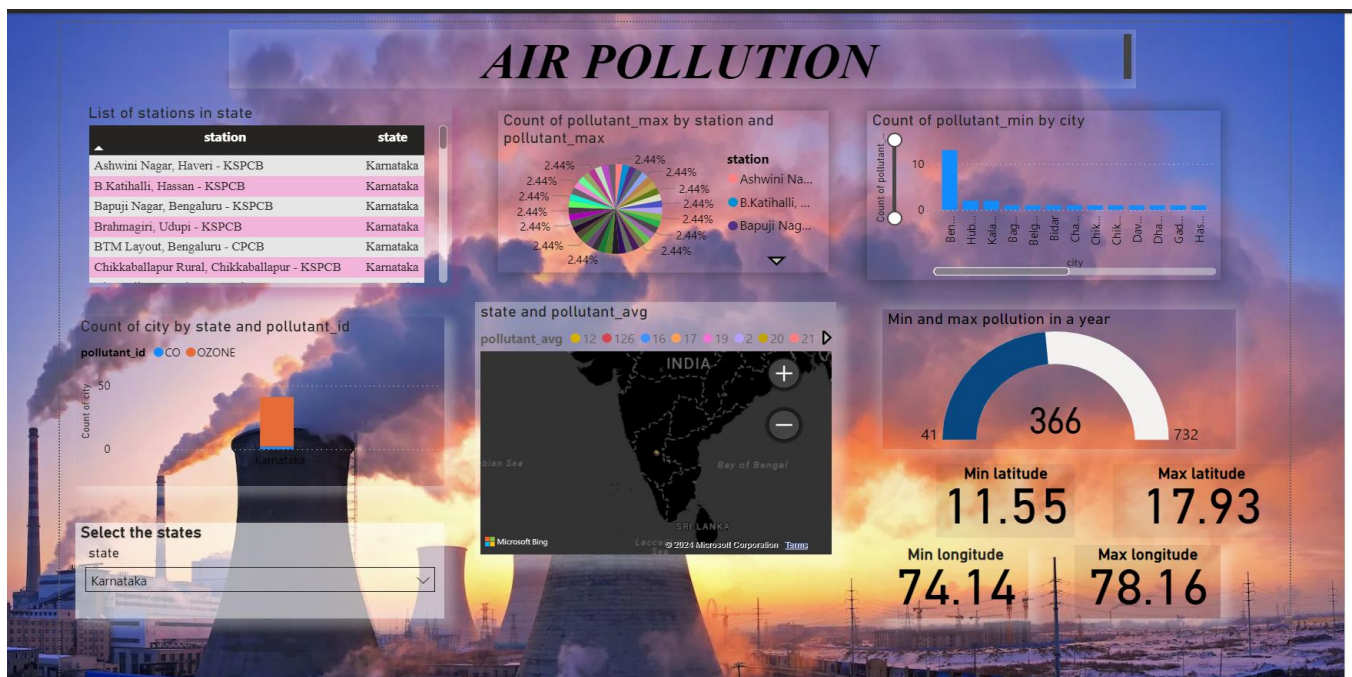
We used the slicer visual. You can make options to select choices like tiles but here we used the drop down option to select any state.



Selecting the states

Once the particular state is selected from the drop down list in the slicer field, all the other visuals related to the data in slicer will undergo the changes.

For example now I will choose state as Karnataka and following changes takes place in the other visuals of the dashboard as shown in below figure.



Changes observed after applying the slicer here

We observe list of stations situated in Karnataka, source of pollution in cities of Karnataka, and the map points out to the average pollution in the state, min and max pollution in a year and minimum-maximum values of latitude and longitude of Karnataka state is shown.

THANK YOU...