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Conclusion

AQI Trends: Some cities experience consistently high AQI levels, indicating poor air quality. Dominant Pollutants: PM2.5 and PM10 are the primary contributors to air pollution in most cities. Seasonal Effects: Pollution levels tend to be higher in winter due to temperature inversion and lower in monsoon months. City-Wise Comparison: Some cities have significantly worse air quality than others, suggesting localized pollution sources like traffic and industry. Temperature Correlation: Higher temperatures in summer often lead to increased ozone (O₃) levels, while winter sees higher PM2.5 and CO levels.

Key Takeaway:
Understanding air pollution trends can help in formulating better environmental policies, improving air quality, and protecting public health.

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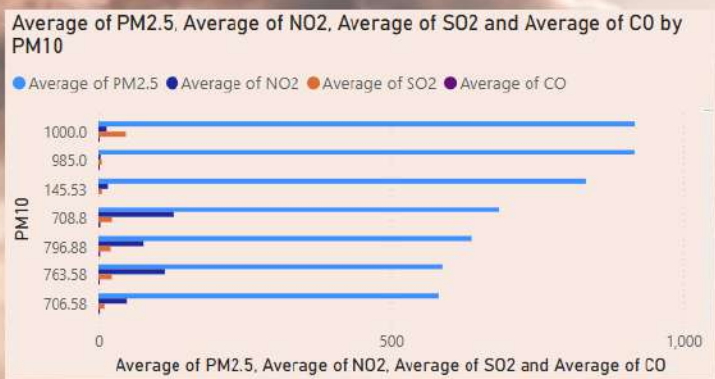
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Data

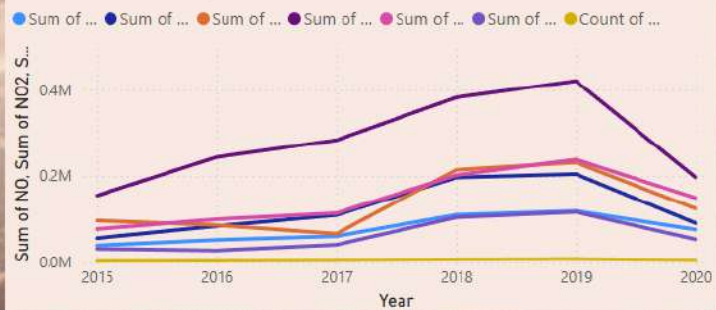
city_day (1)

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Pollutant-Wise Analysis



Sum of NO, Sum of NO2, Sum of NOx, Sum of PM2.5, Sum of O3, Sum of SO2 and Count of PM10 by Year

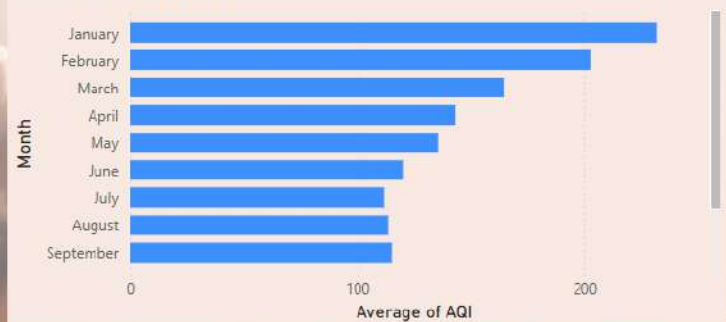


Time-Based Trends

Average of AQI by Year



Average of AQI by Month



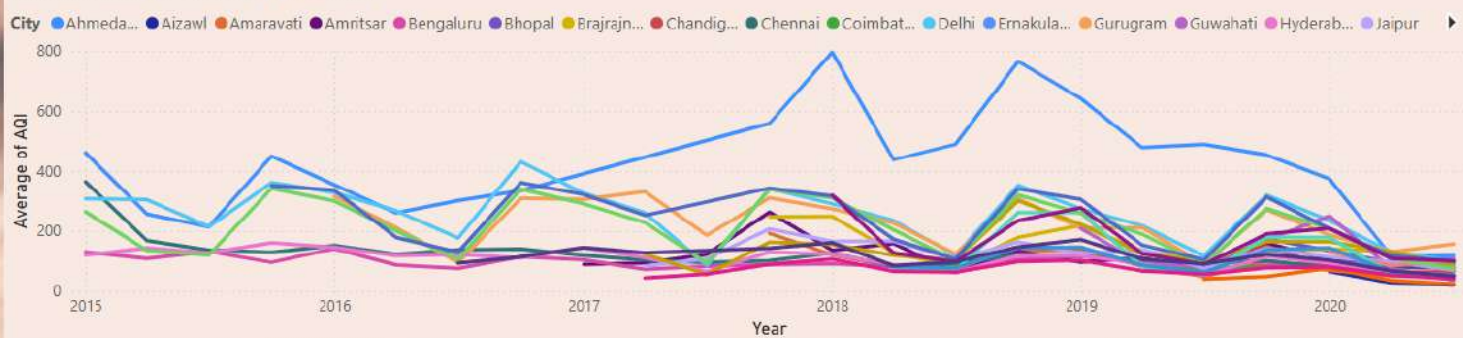
Year	January	February	March	April	May	June	July	August	September
2015	343.00	418.83	298.16	192.22	193.18	171.85	149.63	156.33	165.07
2016	280.56	232.58	195.51	187.99	163.37	151.80	144.42	136.27	138.11
2017	241.48	221.28	170.15	187.33	176.82	128.71	97.13	91.00	103.41
2018	257.37	235.95	205.26	160.78	148.36	150.49	104.60	111.47	119.90
2019	265.25	198.30	168.74	154.08	144.97	122.22	102.44	102.46	93.13
2020	168.49	158.04	110.18	86.72	87.45	76.21	72.50		
Total	231.67	202.91	164.74	143.36	135.49	120.20	111.85	113.61	115.19

Average of AQI by AQI_Bucket

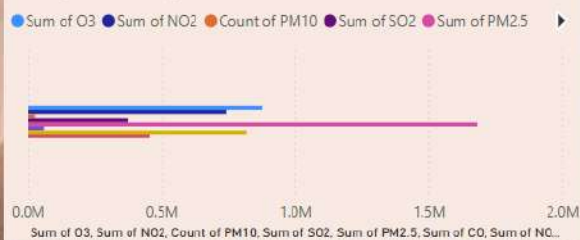


City-Wise Analysis

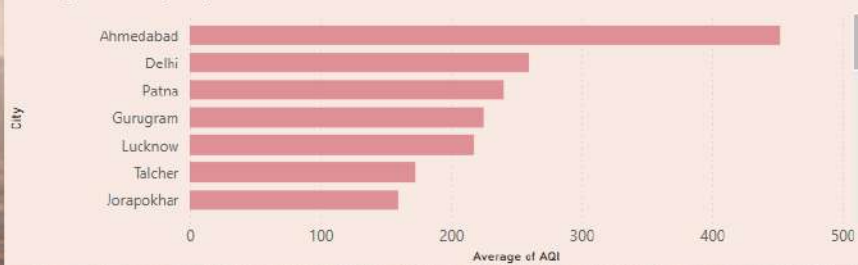
Average of AQI by Year, Quarter and City



Sum of O3, Sum of NO2, Count of PM10, Sum of SO2, Sum of PM2.5, Sum of CO, Sum of NOx and Sum of NO



Average of AQI by City



AIR QUALITY ANALYSIS PREDICTION

Overview

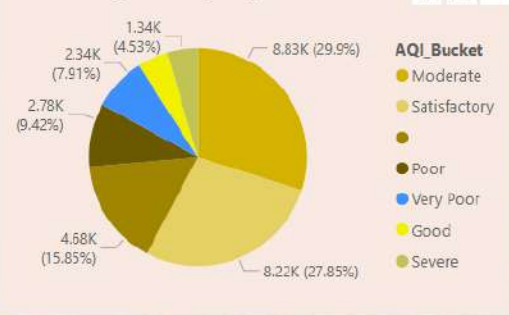
Average of AQI, Min of AQI and Max of AQI by City



Average of AQI by City



Count of AQI_Bucket by AQI_Bucket



Sum of AQI by City and AQI_Bucket



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INTRODUCTION

Air pollution is a major environmental concern affecting millions of people worldwide. Poor air quality leads to various health issues, including respiratory diseases, cardiovascular problems, and premature deaths. This Power BI dashboard provides an *in-depth analysis of air pollution levels in different cities*, focusing on AQI trends, *major pollutants*, *seasonal variations*, and *city-wise comparisons*. The dataset used in this project includes information on Air Quality Index (AQI) and concentrations of major pollutants such as:

- Particulate Matter (PM2.5, PM10)
- Nitrogen Dioxide (NO2, NO, NOx)
- Sulfur Dioxide (SO2)
- Carbon Monoxide (CO)
- Ozone (O3)
- Volatitle Organic Compounds (Benzene, Toluene, Xylene)

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