माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर (म.प्र.), भारत
MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.), INDIA
Deemed University
(Declared under Distinct Category by Ministry of Education, Government of India)
NAAC ACCREDITED WITH A++ GRADE

NEC POWER BI DASHBOARD

ENVIRONMENTAL PARAMETERS OF GWALIOR

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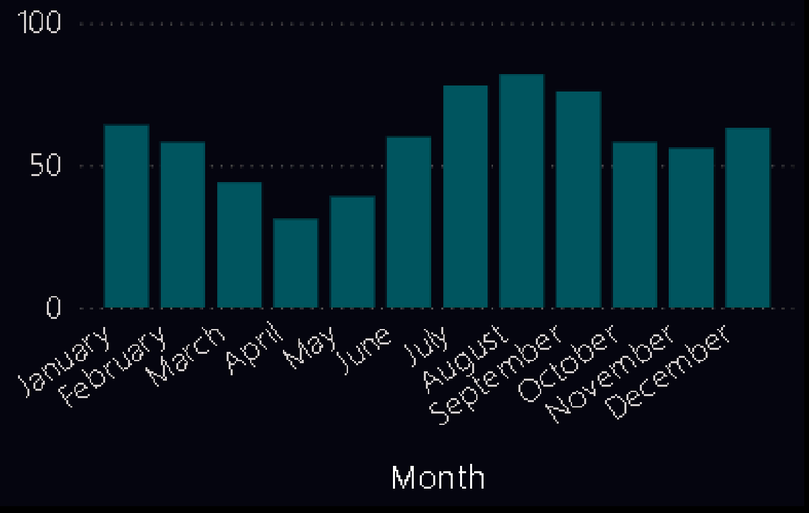
INTRODUCTION

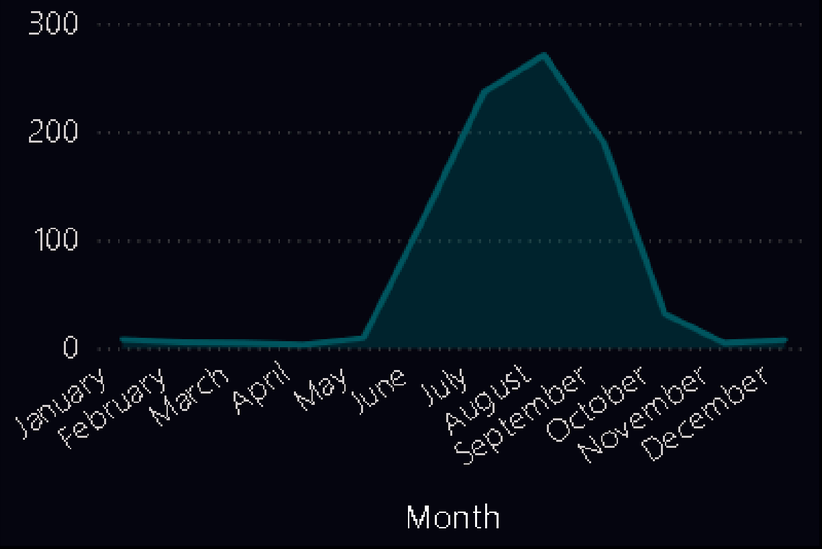
- Gwalior, a city in Madhya Pradesh, is experiencing increasing environmental challenges due to climatic shifts.
- It is important to track parameters like temperature, rainfall, humidity, and air quality to understand the environment better.
- By studying data from previous years, helps in identifying pollution patterns, and climate anomalies
- This Power BI dashboard project aims to visualize and interpret Gwalior’s environmental data in an interactive and insightful manner.
- It also helps spread awareness among people so they can take steps to protect the environment.

ENVIRONMENTAL PARAMETERS OF GWALIOR

Humidity



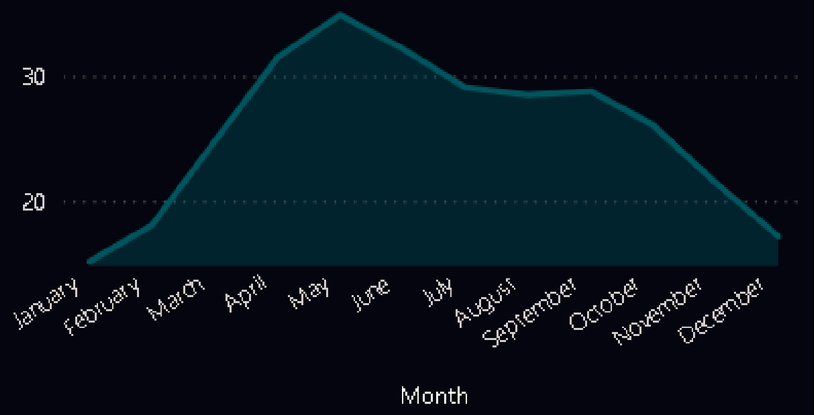
Rainfall



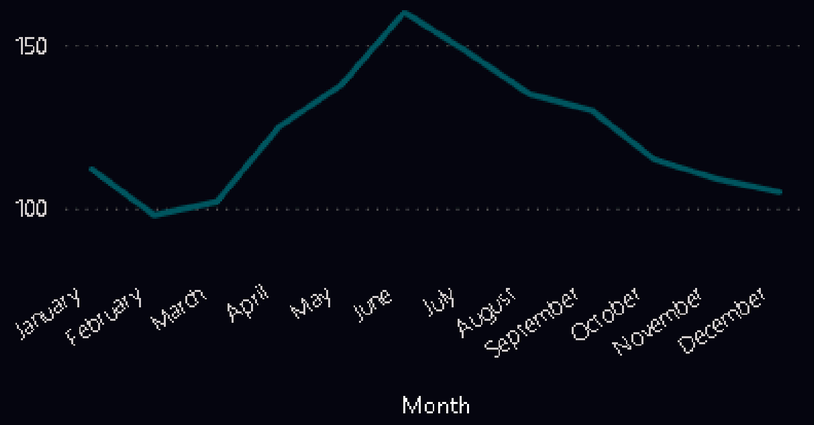
2015 | 2016 | 2017 | 2018 | 2019

Temperature

(in degree Celcius)



AQI



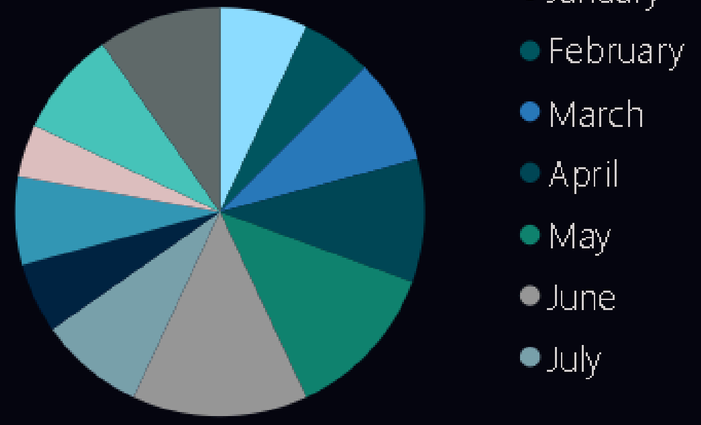
43.10°C
Max Temperature

891.90
Total Rainfall (in_mm)

7.30°C
Min Temperature

59.08
Avg Humidity

High Pollution Days



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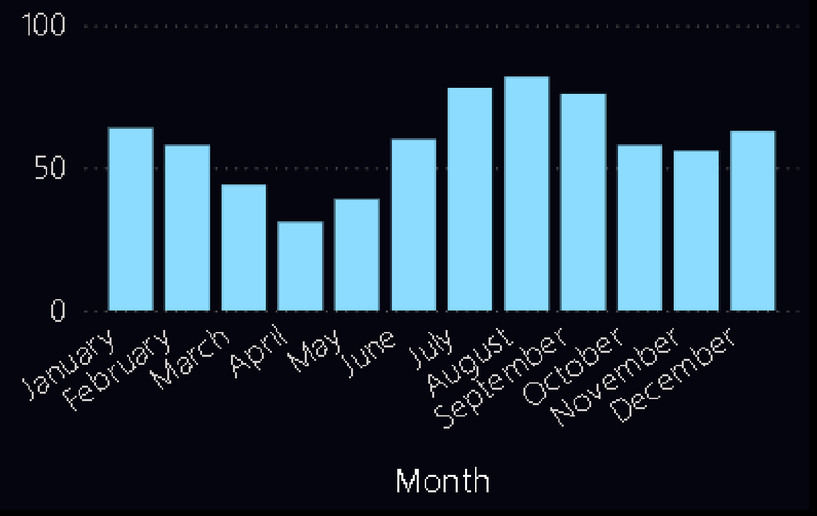
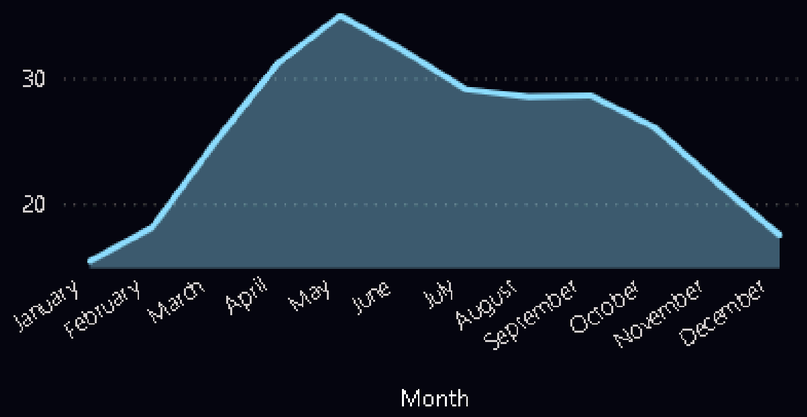
Humidity



2019 | 2020 | 2021 | 2022 | 2023

Temperature

(in degree Celcius)



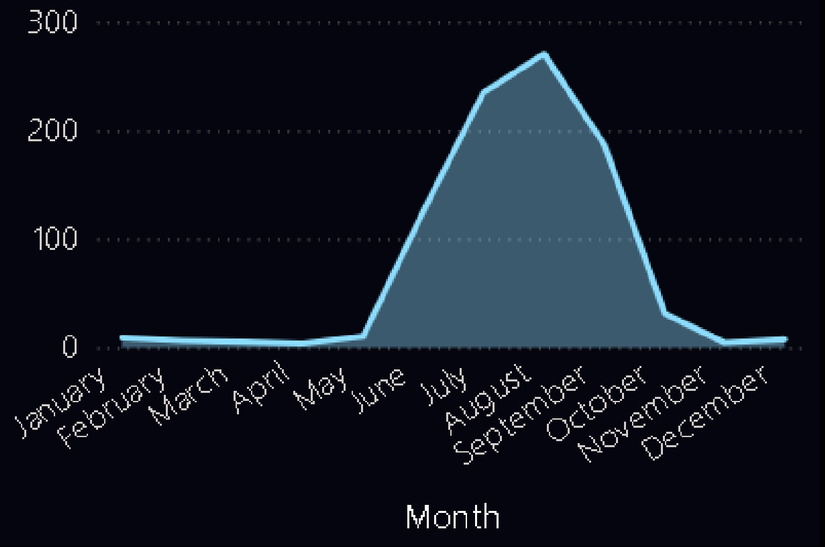
43.50°C
Max Temperature

896.30
Total Rainfall (in_mm)

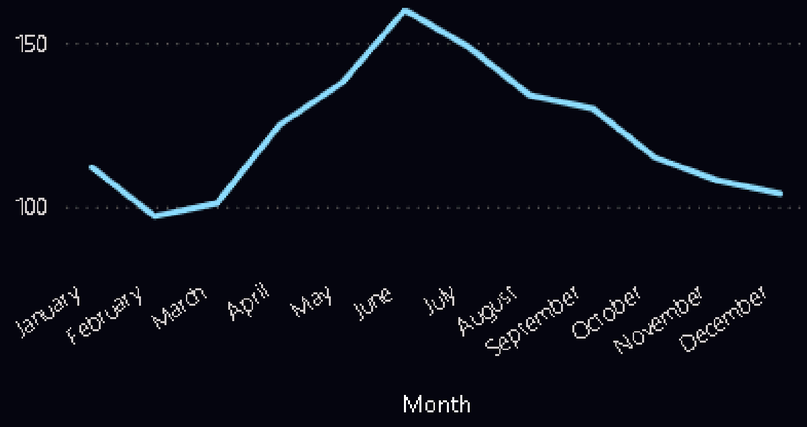
7.20°C
Min Temperature

59.08
Avg Humidity

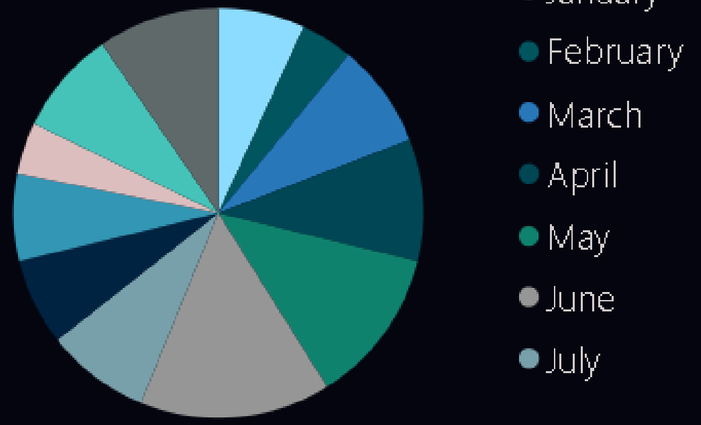
Rainfall



AQI



High Pollution Days



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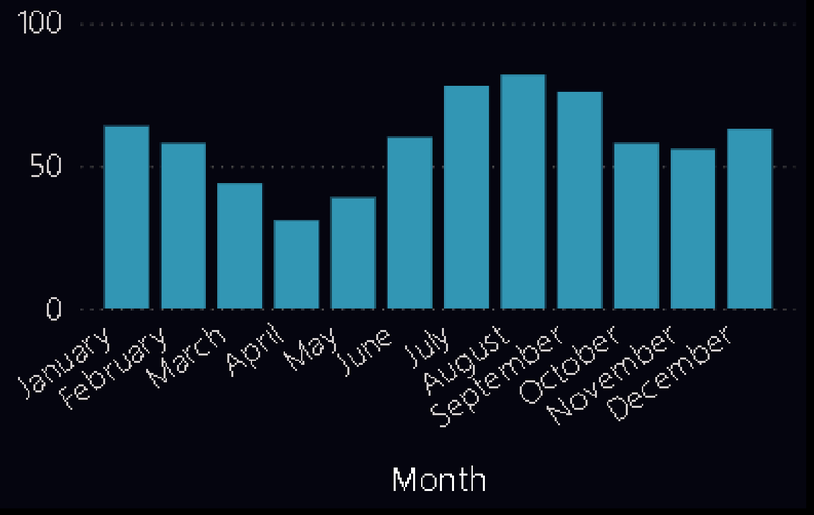
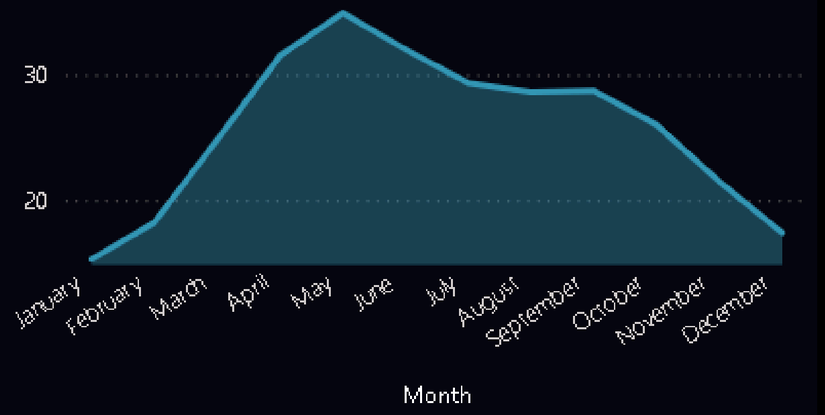
Humidity



2020 | 2021 | 2022 | 2023 | 2024

Temperature

(in degree Celcius)



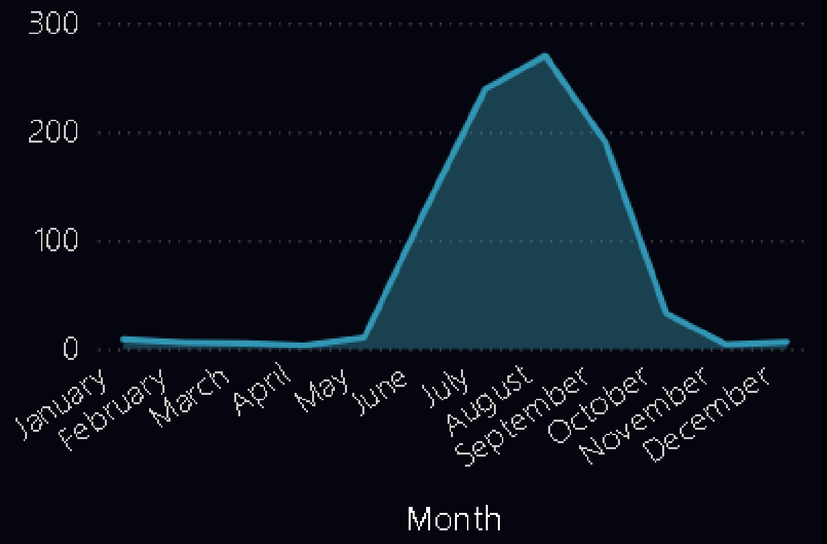
42.80°C
Max Temperature

905.20
Total Rainfall (in_mm)

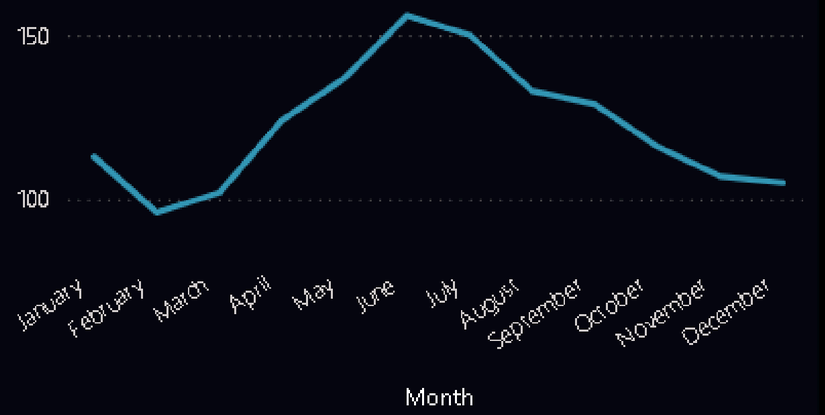
7.40°C
Min Temperature

59.08
Avg Humidity

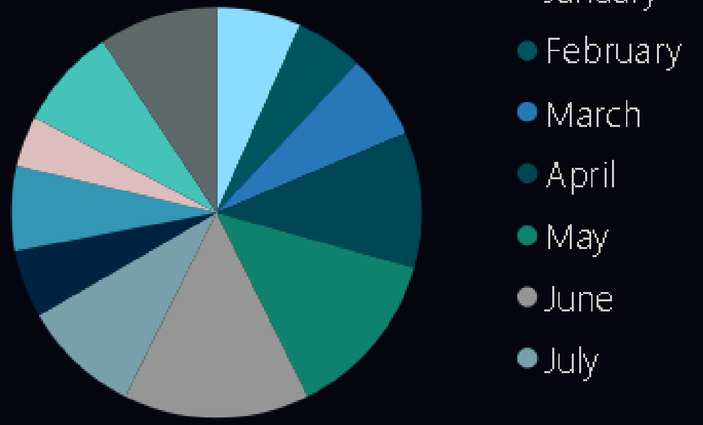
Rainfall



AQI

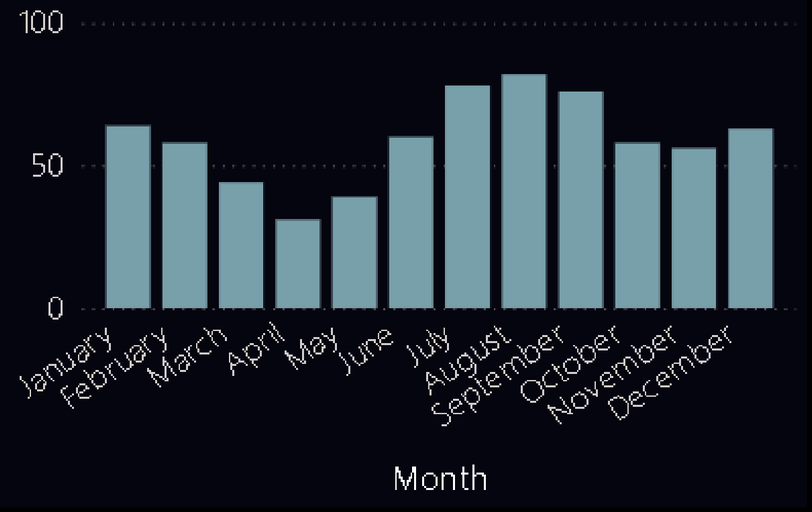


High Pollution Days



ENVIRONMENTAL PARAMETERS OF GWALIOR

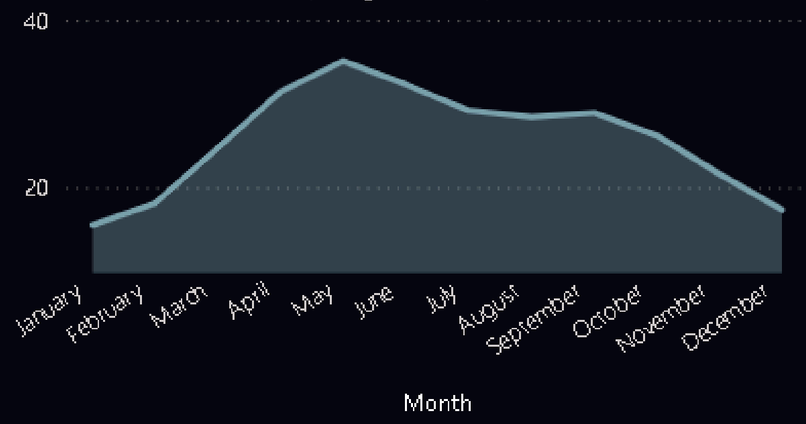
Humidity



2019 | 2020 | 2021 | 2022 | 2023

Temperature

(in degree Celcius)



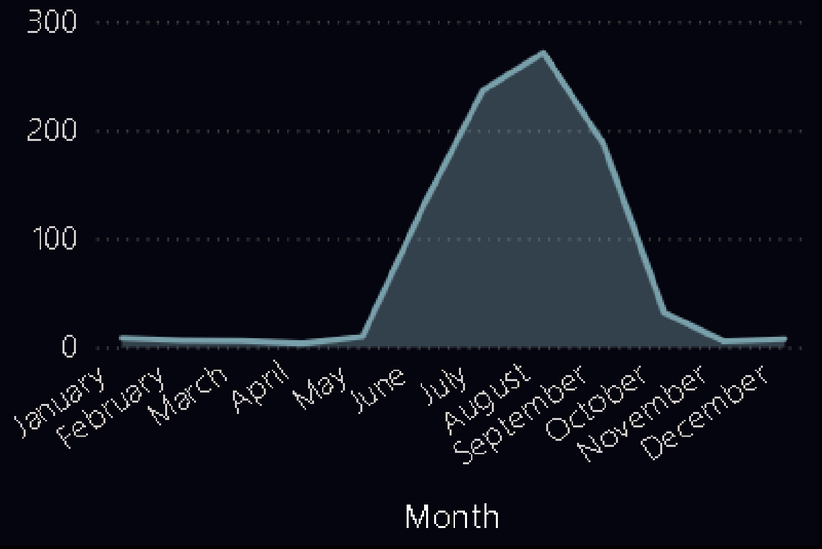
43.00℃
Max Temperature

902.90
Total Rainfall (in_mm)

7.20℃
Min Temperature

59.08
Avg Humidity

Rainfall



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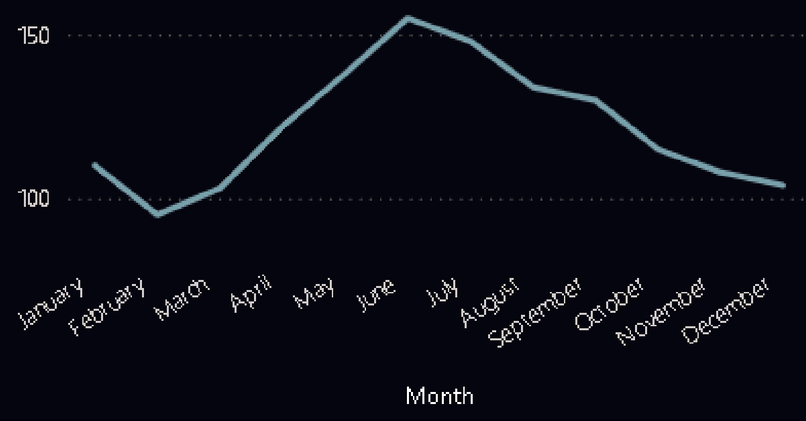
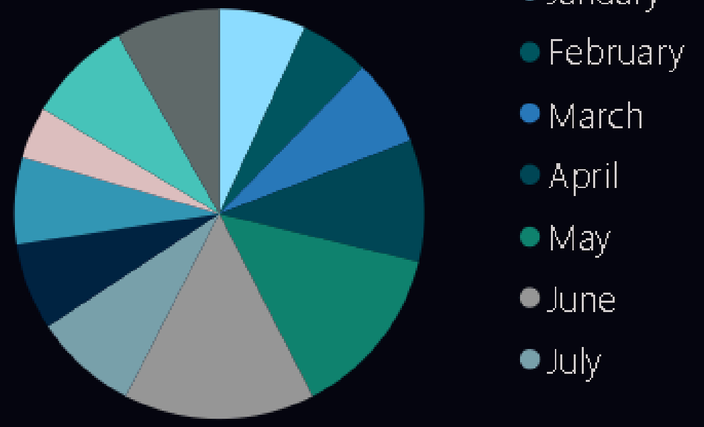


High Pollution Days



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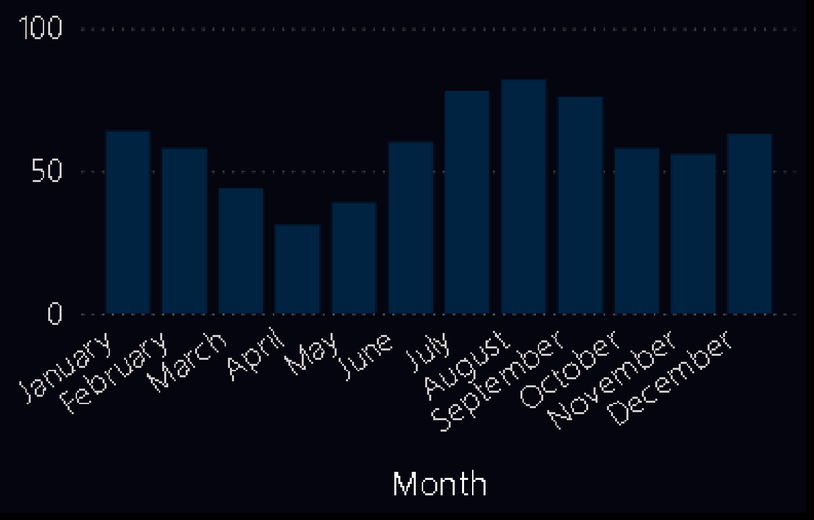
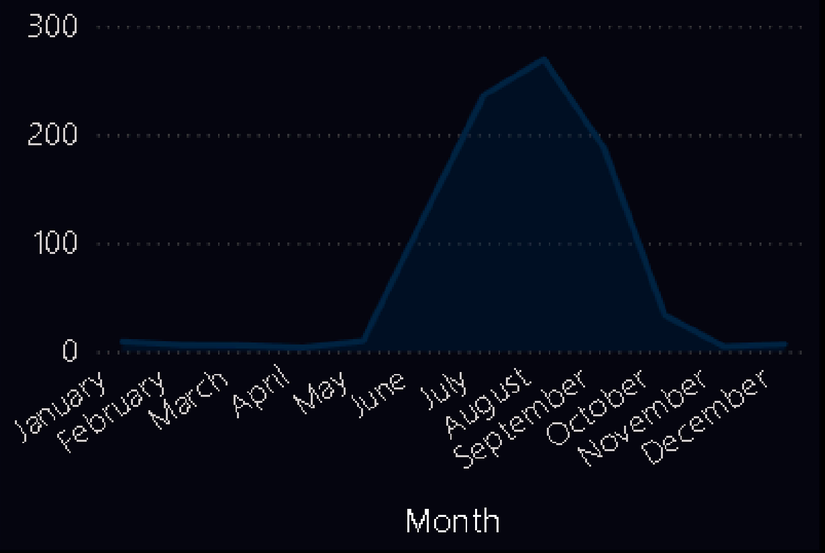
Humidity



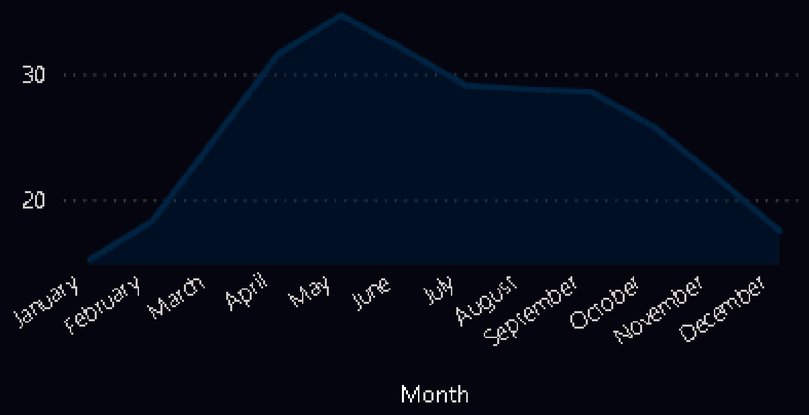
Rainfall



2020 | 2021 | 2022 | 2023 | 2024

Temperature

(in degree Celcius)



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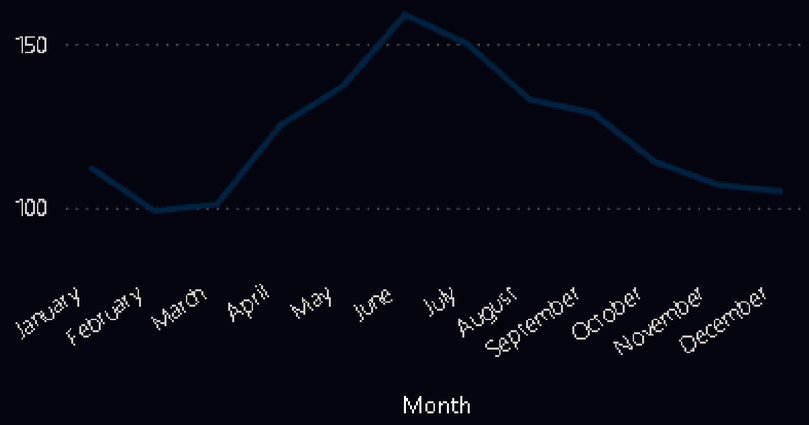


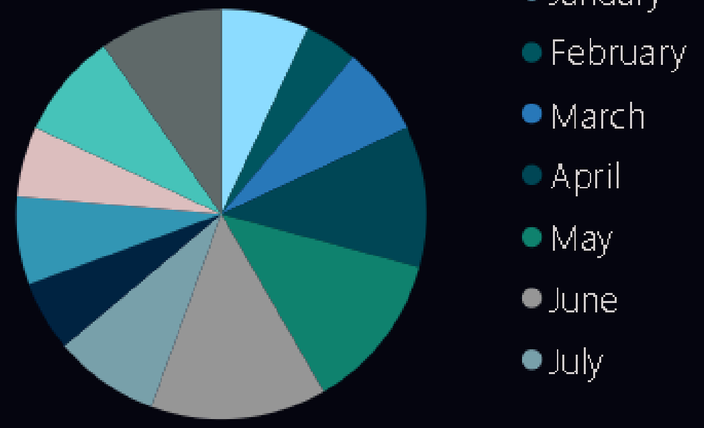
43.10℃
Max Temperature

895.70
Total Rainfall (in_mm)

7.50℃
Min Temperature

59.08
Avg Humidity

High Pollution Days



KEY INSIGHTS

- Total rainfall and humidity levels were highest during the monsoon months (July to September).
- Summers have been getting hotter over the years.
- The Air Quality Index (AQI) rose during the dry summer and winter months, reflecting more pollution during these seasons.
- May and November recorded the highest number of high pollution days, possibly due to festivals.
- During the COVID-19 lockdown period (2020–2021), both AQI and pollution levels showed a significant drop, likely due to reduced human and industrial activity.

THANK YOU