PROJECT TITLE : AIR QUALITY ANALYSIS IN TAMIL NADU

PHASE TWO

Step 1 : ***Data Collection***

 Air quality data from monitoring stations in Tamil Nadu.Data on various air pollutants, including PM2.5, PM10, SO2, NO2, CO, O3, and more.

STEP 2 : **Data Processing**

Clean and pre-process the collected data to remove outliers and errors. Data over time (e.g., hourly, daily) for analysis.

STEP 3 : **Data Analysis**

Calculate Air Quality Indices (AQI) based on pollutant concentrations. Trends, patterns, and anomalies in the data.

STEP 4 : **Spatial Analysis**

Examine the distribution of air quality across different regions within Tamil Nadu. Identify areas with better or worse air quality.

STEP 5: **Temporal Analysis**

Asses how air quality varies over different times, such as seasons or days of the week. Identify any long-term trends or changes.

STEP 6 : **Health Impact Assessment**

Estimate the potential health impacts of air pollution on the population.Consider the correlation between air quality and health outcomes.

STEP 7 : **Comparison and Benchmarking**

Compare current air quality data with historical data to assess improvements or deterioration. Benchmark against air quality standards and guidelines set by authorities.

STEP 8 : **Public Awareness**

Communicate the results and recommendations to the public and relevant authorities. Encourage awareness and action to mitigate air pollution.