AIR QUALITY ASSESSMENT TAMIL NADU

INTRODUCTION:

As part of the initiative, data from Tamil Nadu monitoring stations will be examined and shown. Understanding the amount of air pollution and developing a forecast model to determine RSPM/PM10 levels based on amounts of NO2 and SO2. The objectives of this project are established, and the analytical plan is a design is chosen, visualization techniques are used, and a prediction model is constructed.utilizing Python and the necessary libraries.

DESCRIPTION:

Phase 3 is all about prepping the data in the provided csv file in order to do various operations, including analysis, exploratory data analysis, and dataset visualization.

PHASE 3 OF AIR QUALITY ANALYSIS:

The phase 3 of the project **"AIR QUALITY ANALYSIS"** refers to visualizing of the

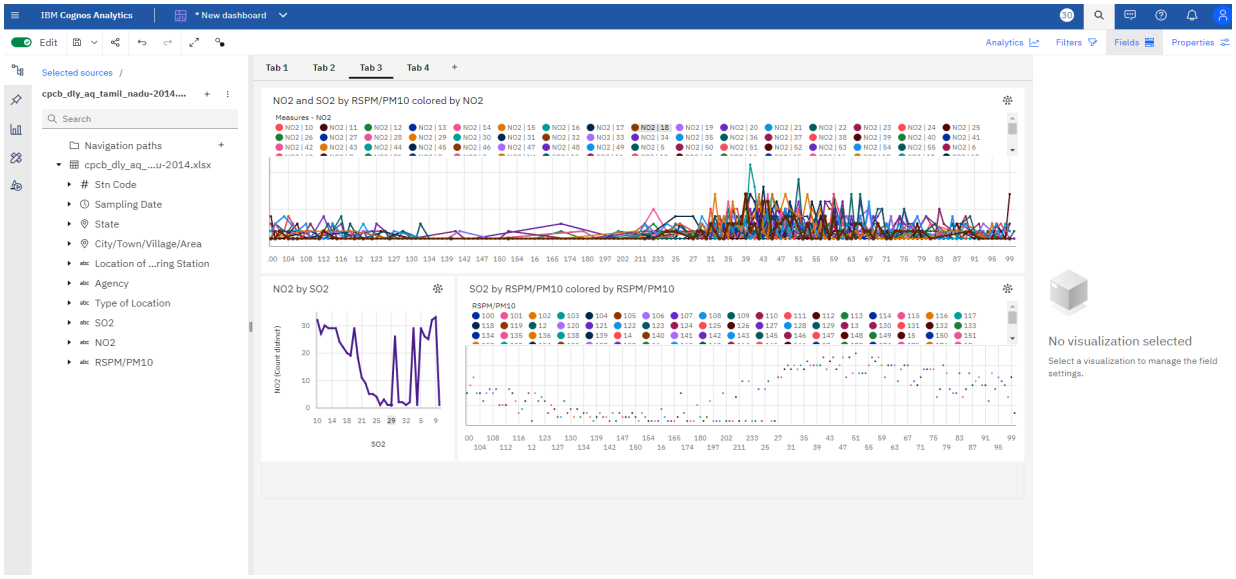
data using the “IBM Cognos Tool”. The various charts displayed in this documen are Bar chart,Pie chart,Line chart and heat map.

IBM COGNOS TOOL:

The IBM Cognos tool is used for analyzing the files such as csv files and other files to visualize data from them.

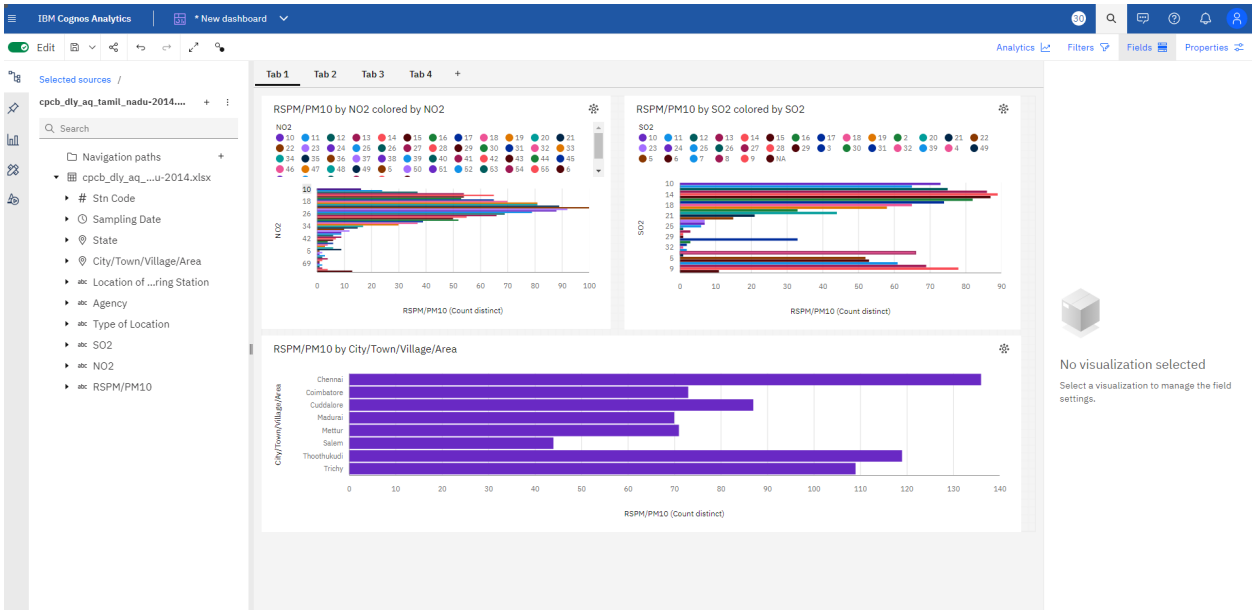
- **LINE CHART:**

  - RSPM/PM10 41 has the highest NO2 due to Stn Code 161.
  - Stn Code 767 has the highest NO2 at 80, out of which SO2 18 contributed the most at 12.
  - Stn Code 767 has the highest SO2 at 108, out of which RSPM/PM10 95 contributed the most at 4.
  - RSPM/PM10 41 SO2 from Stn Code 71 is 4, whereas 44 is only 1.



- **[BAR CHART:]**

  - 13 has a RSPM/PM10 of 20 for Stn Code 366.
  - NO2 22 RSPM/PM10 from Stn Code 239 is 17, whereas 24 is only 7.
  - 4 has a RSPM/PM10 of 45 for Stn Code 375.
  - City/Town/Village/Area Chennai has the highest RSPM/PM10 due to Stn Code 766.


IBM Cognos Analytics
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Location of ...ring Station
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Type of Location
SO2
NO2
RSPM/PM10
Tab 1
Tab 2
Tab 3
Tab 4
RSPM/PM10 by NO2 colored by NO2
RSPM/PM10 (Count distinct)
RSPM/PM10 by SO2 colored by SO2
RSPM/PM10 (Count distinct)
RSPM/PM10 by City/Town/Village/Area
Chennai
Coimbatore
Cuddalore
Madurai
Mettur
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