

Air quality analysis in tamilnadu

Introduction

In this part we will begin building our project by loading and preprocessing the dataset. Begin the analysis by loading and preprocessing the air quality dataset we Load the dataset using Python and data manipulation libraries (e.g., pandas)

The coding is as follows:

To load the air quality dataset in Tamil Nadu using Python and pandas, follow these steps:

1. Install the necessary libraries:

- pandas: pip install pandas

2. Import the required libraries:

Python

Import pandas as pd

3. Load the dataset:

Python

Assuming the dataset is in a CSV file format

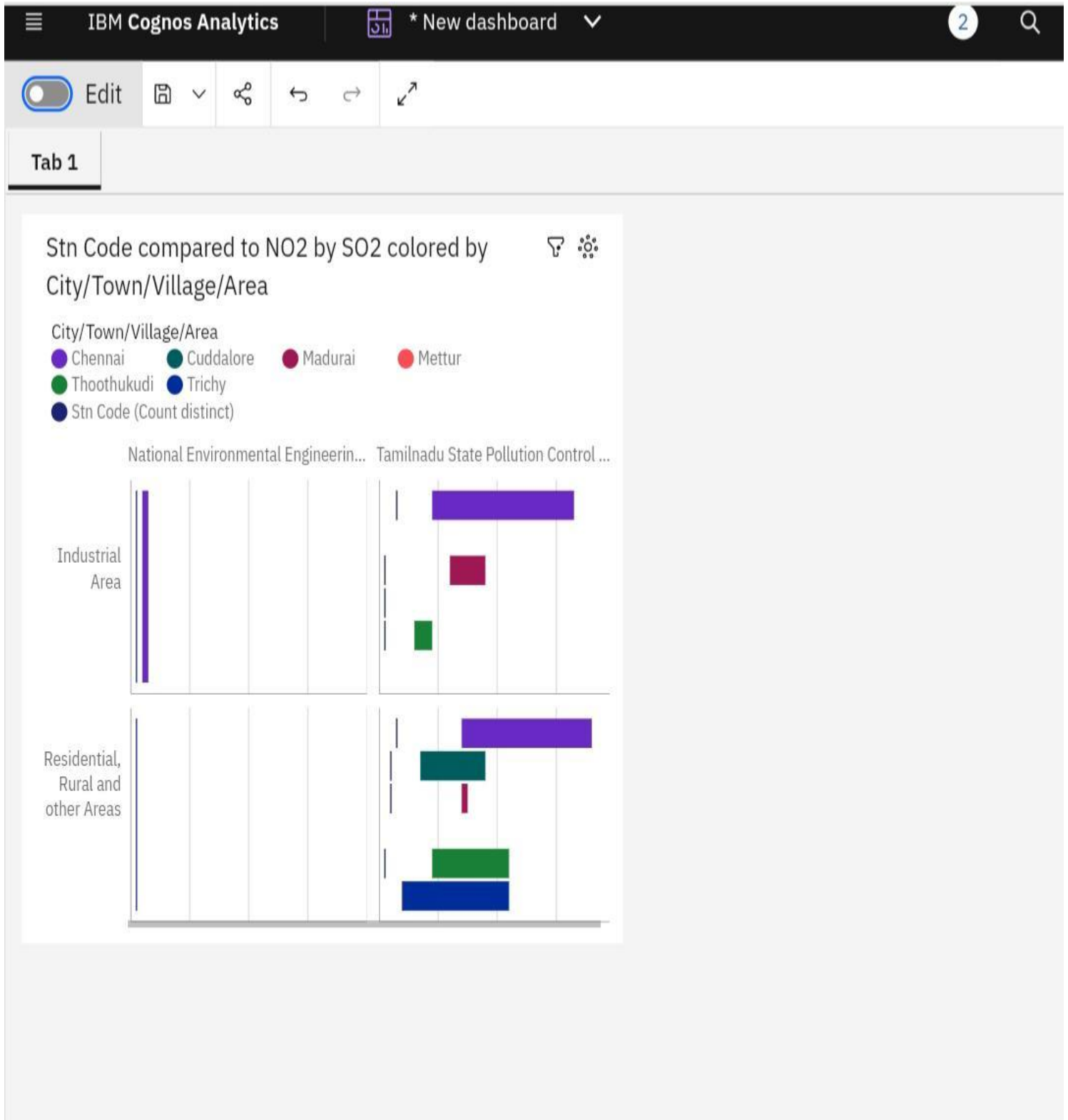
Dataset_path = 'path/to/air_quality_dataset.csv'

Df = pd.read_csv(dataset_path)

Replace 'path/to/air_quality_dataset.csv' with the actual path to your air quality dataset file.

Now you have loaded the dataset into a pandas DataFrame named df. You can proceed with further data manipulation and analysis using pandas and other libraries.

The visualization images created according to given dataset through ibm platform is represented as:



 All tabs



Drag and drop data here to filter all tabs.

 This tab

Tab 1

+

Type of Location and Type of Location with
NO2 and Location of Monitoring Station for
Location of Monitoring Station, Sampling
Date, Sampling Date

NO2 (Count)



Location of Monitoring Station

- Location of Monitoring Station
- AVM Jewellery Building, Tuticorin
 - Adyar, Chennai
 - Anna Nagar, Chennai
 - Bishop Heber College, Tiruchy

100

101

10

11



Maintenance: Cognos Analytics Maintenance: 21st of Oct, 9:00-17:00 ...ns may be necessary and to subscribe to future events

Dismiss



Edit



Selected sources /

datafile.xls



Search

Navigation paths



datafile.xls

Stn Code

⌚ Sampling Date

📍 State

📍 City/Tow...ge/Area

abc Location ... Station

abc Agency

abc Type of Location

abc SO2

abc NO2

abc RSPM/PM10

abc PM 2.5

Tab 1



N02 by S02



S02

14

17

18

19

10

12

13

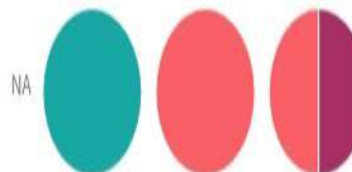
11

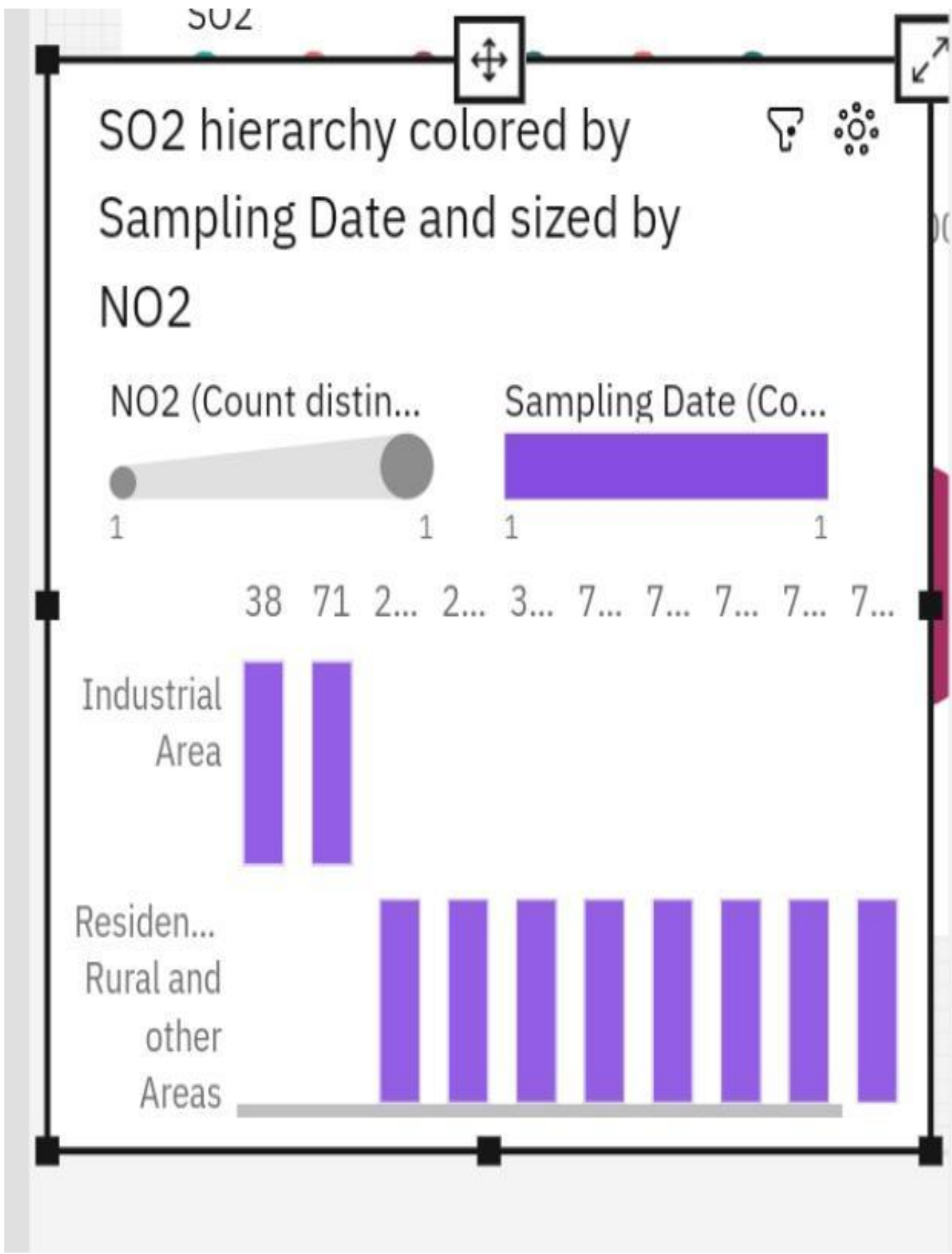
15 | 100

18 | 100

21 | 100

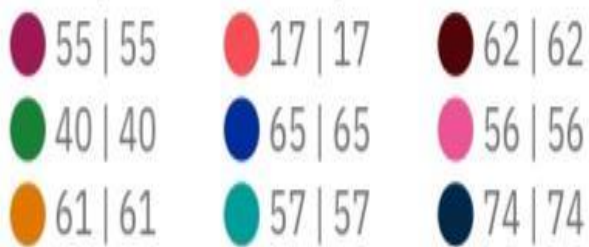
NA





State by RSPM/PM10 and RSPM/PM10

RSPM/PM10 - RSPM/PM10



Industrial
Area



RSPM/PM10

Click or

Size*

State

Repeat (column)

Click or

Repeat (row)

Type of Locatio



+

City/Town/Village/Area and
RSPM/PM10

City/Town/Village/...	RSPM/PM10
Chennai	104
	107
	115
	119
	123
	166
	17
	21

Columns*

City/Town/Village/Area

∴ RSPM/PM10

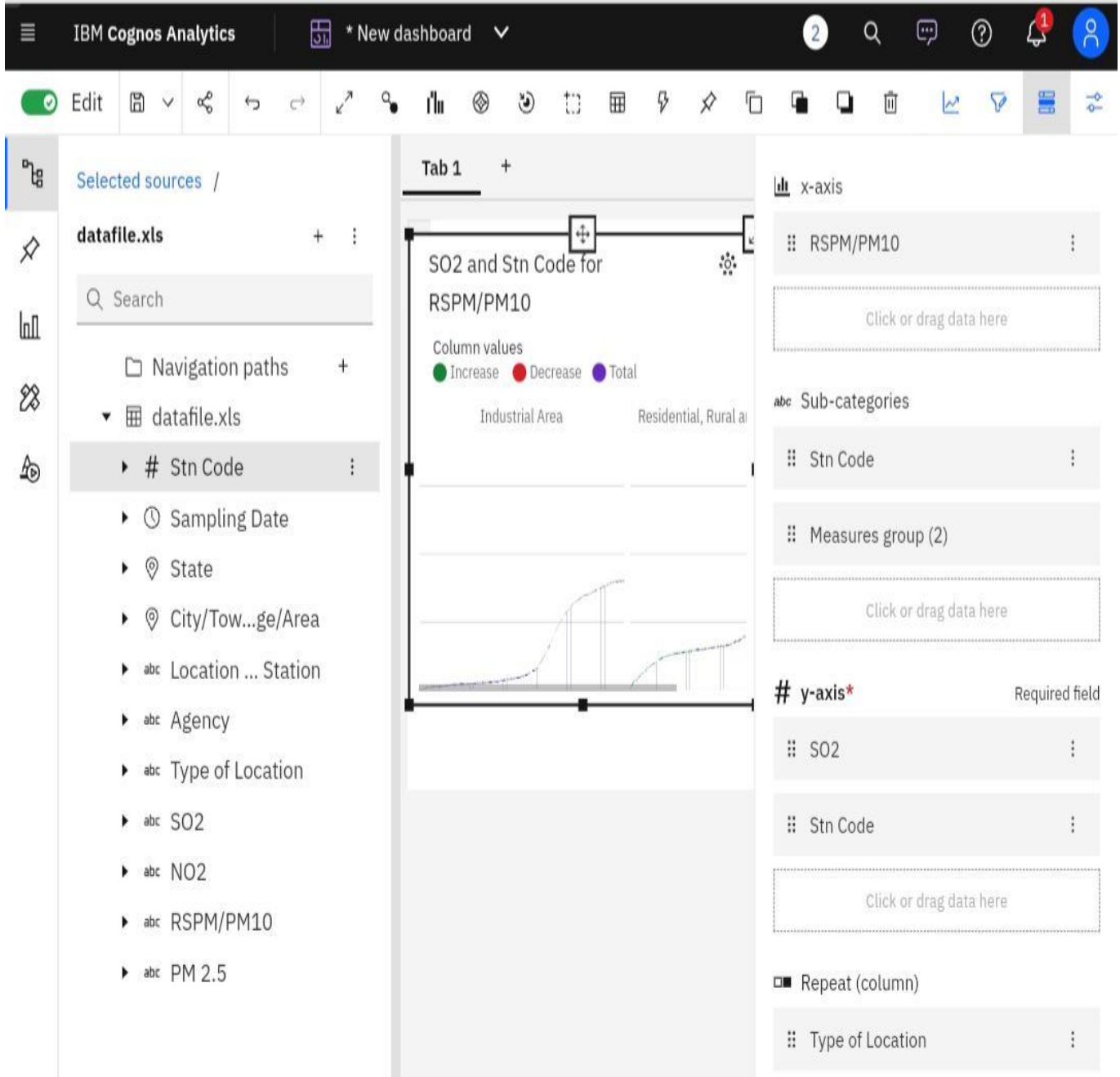
Click or drag data here

Local filters

S02

Includes: 13

Click or drag data here



Conclusion

The generated graph images through ibm platform made us to understand about the air quality analysis through the tamilnadu state and it greatly helped for our easy prediction about air quality analysis and it's bad effects towards people in highly polluted area.

Conclusion