

# 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

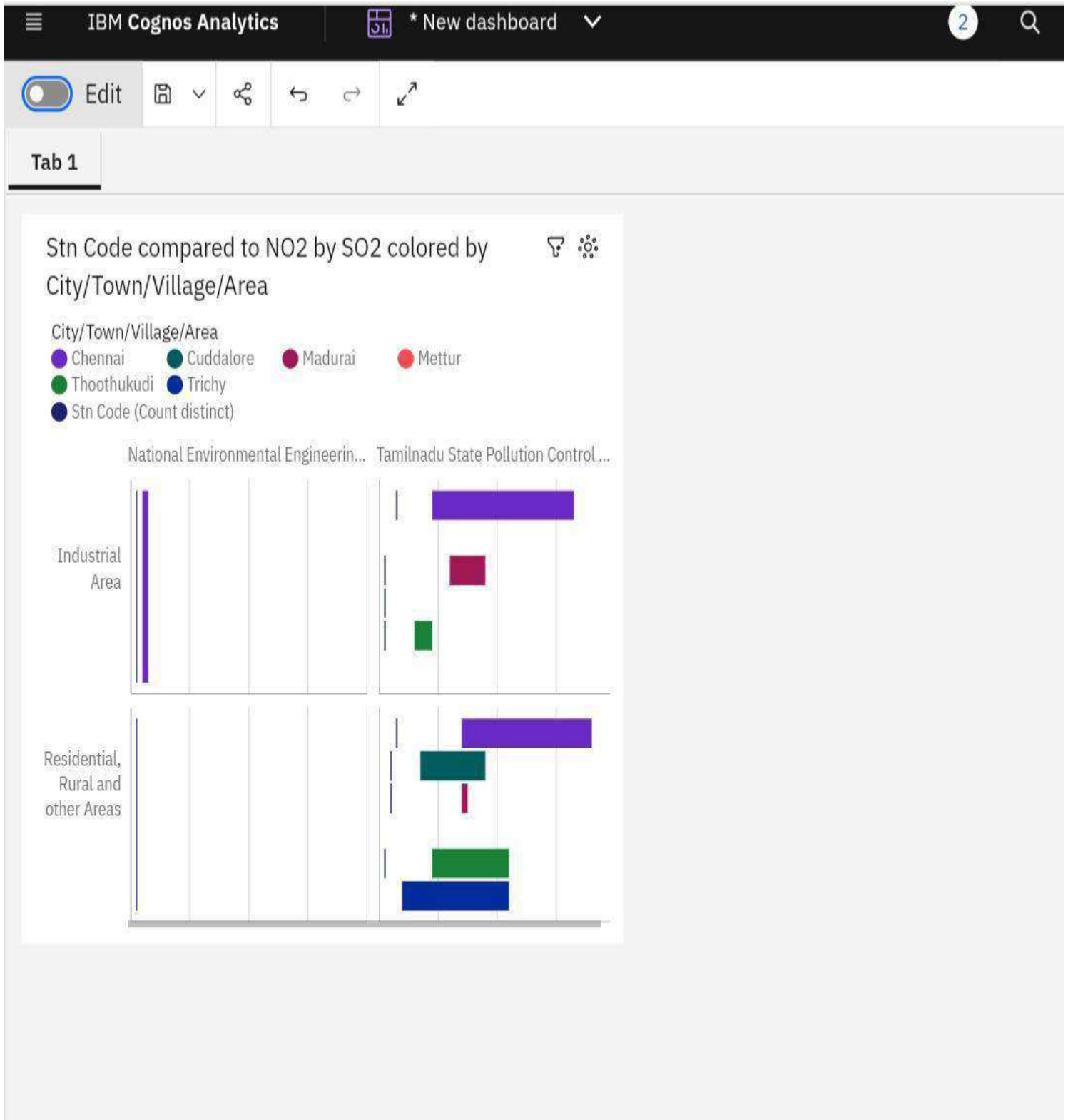
Dataset\_path = 'path/to/air\_quality\_dataset.csv'

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:







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/Town/Geographic Area



Location ... Station



Agency



Type of Location



SO2



NO2



RSPM/PM10



PM 2.5

Tab 1



NO2 by SO2



SO2

14

17

18

19

10

12

13

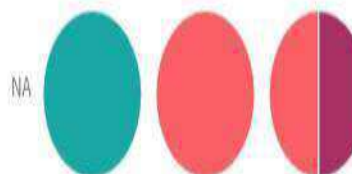
11

15 | 100

18 | 100

21 | 100

NA



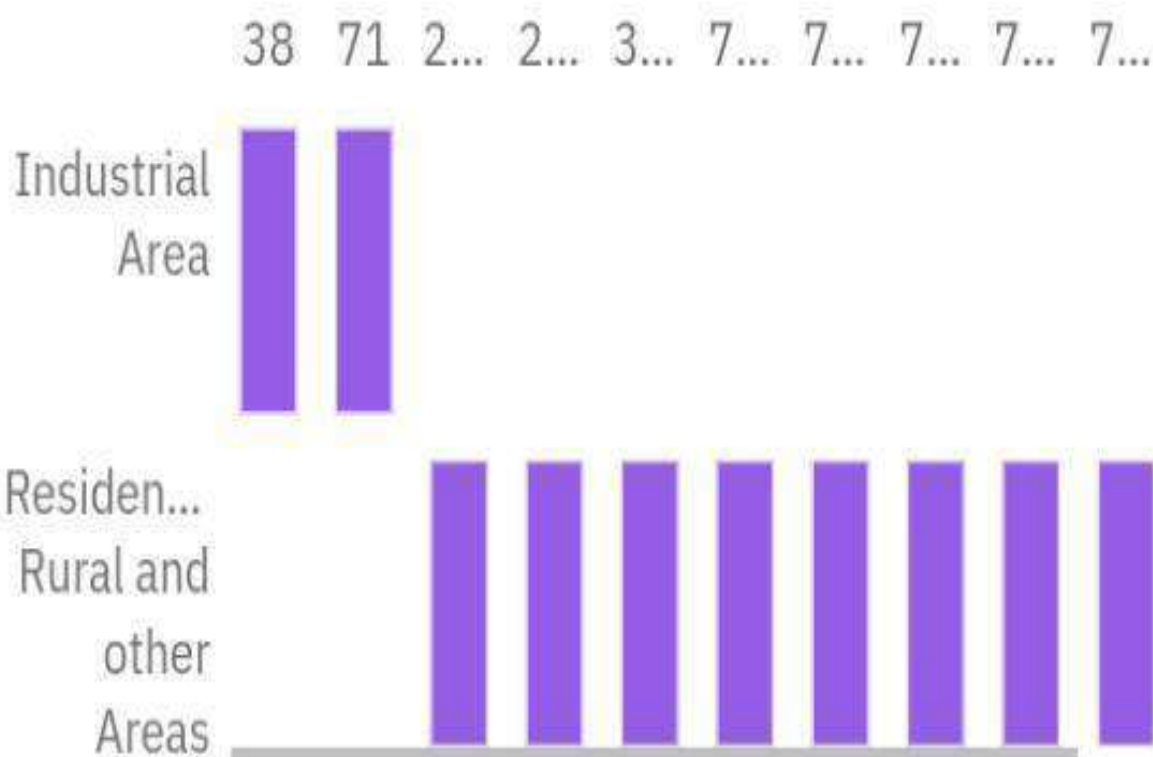
SO2

SO2 hierarchy colored by  
Sampling Date and sized by  
NO2

NO2 (Count distin...

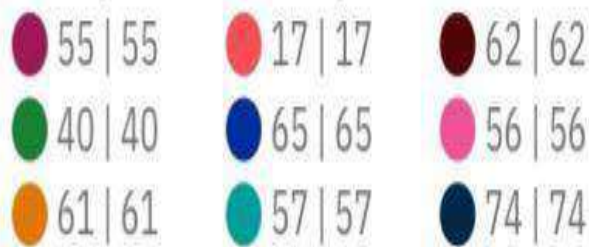


Sampling Date (Co...



# 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

Tab 1

City/Town/Village/Area and RSPM/PM10

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

Columns\*

City/Town/Village/Area

RSPM/PM10

Click or drag data here

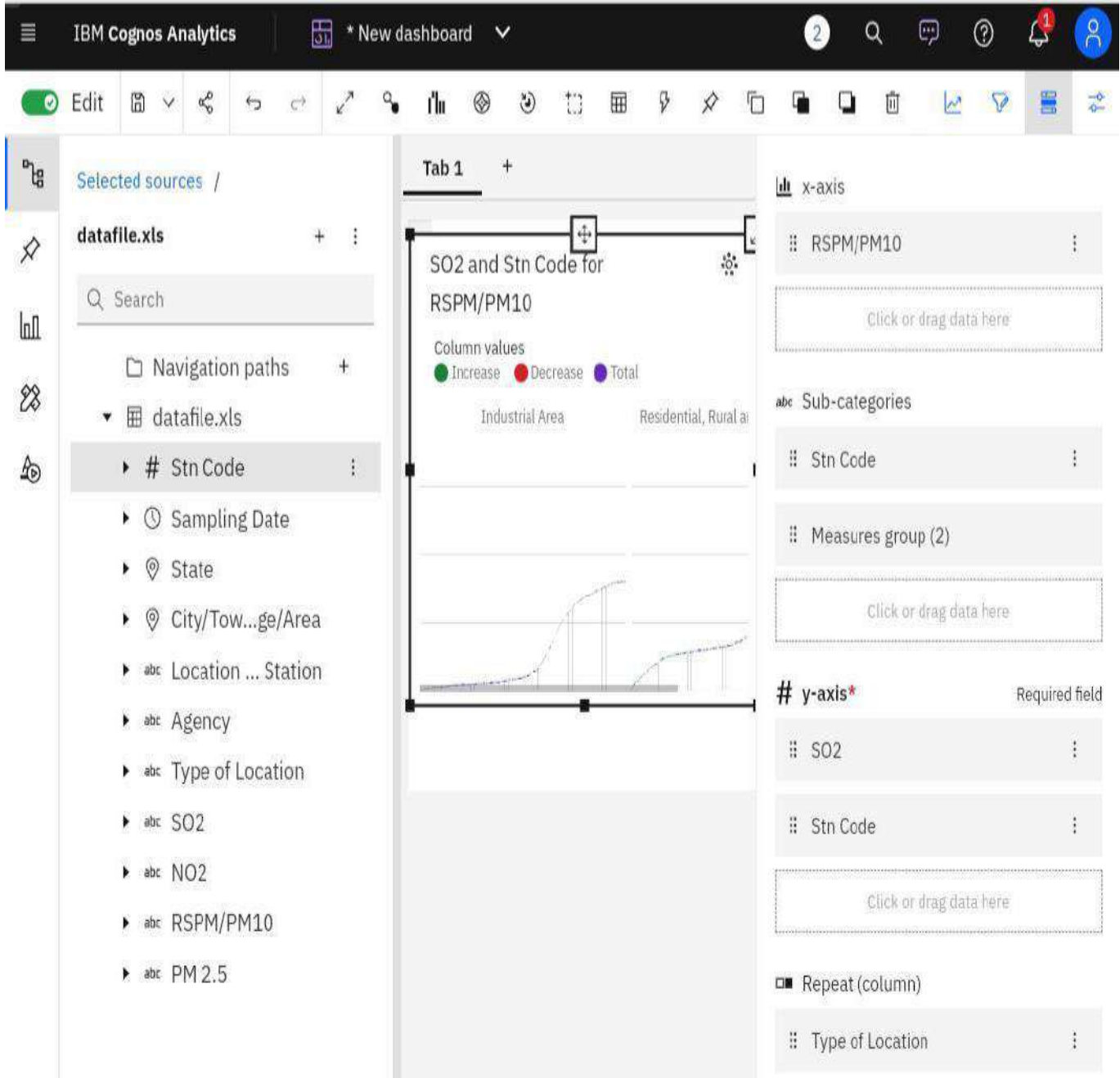
Local filters

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