

AIR QUALITY ANALYSIS IN TAMILNADU

PHASE4

```
1
2 import pandas as pd
3 data = pd.read_csv('ds.csv')
4 print(data.head())
5
6 average_so2 = data['SO2'].mean()
7 average_no2 = data['NO2'].mean()
8 average_rspm_pm10 = data['RSPM/PM10'].mean()
9 print(f"Average SO2 level: {average_so2}")
10 print(f"Average NO2 level: {average_no2}")
11 print(f"Average RSPM/PM10 level: {average_rspm_pm10}")
12
13
14
```

Python Debug Console

-python.python-2023.18.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher '52138' '--' 'c:\Users\shree\OneDrive\Desktop\DAC_Phase3\ds.py'

	Stn Code	Sampling Date	State	City/Town/Village/Area	...	SO2	NO2	RSPM/PM10	PM 2.5
0	38	01-02-14	Tamil Nadu	Chennai	...	11.0	17.0	55.0	NaN
1	38	01-07-14	Tamil Nadu	Chennai	...	13.0	17.0	45.0	NaN
2	38	21-01-14	Tamil Nadu	Chennai	...	12.0	18.0	50.0	NaN
3	38	23-01-14	Tamil Nadu	Chennai	...	15.0	16.0	46.0	NaN
4	38	28-01-14	Tamil Nadu	Chennai	...	13.0	14.0	42.0	NaN

[5 rows x 11 columns]
Average SO2 level: 11.503138075313808
Average NO2 level: 22.136775994417306
Average RSPM/PM10 level: 62.49426086956522
PS C:\Users\shree\OneDrive\Desktop\DAC_Phase3>

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print(f"Average RSPM/PM10 level: {average_rspm_pm10}")
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-' 'C:\Users\shree\OneDrive\Desktop\DAC_Phase3\ds.py'

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Dataset Link: <https://tn.data.gov.in/resource/location-wise-daily-ambient-air-quality-tamil-nadu-year-2014>