

Visual Studio Code interface showing a Jupyter Notebook titled "Satyam_plots.ipynb". The notebook contains two code cells and a table output.

Code Cell 1:

```
#importing matplotlib and seaborn for plot
import matplotlib.pyplot as plt
import seaborn as sns
import pandas as pd
```

Code Cell 2:

```
#reading pollution data
data = pd.read_csv("pollution.csv")
data.head(10)
```

Table Output:

	location	month	year	SO2 µg/l	NO2µg/l	PM10 µg/l	PM2.5 µ g/l	CO µg/l	O3 µ g/l 8 HR	NH3 µ g/l	AQI	Air Quality
0	CLOCK TOWER- DEHRADUN	1	2012	27.33	30.33	193.28	60.0	2	100	400	162.19	Moderate
1	CLOCK TOWER- DEHRADUN	2	2012	25.68	25.80	173.77	60.0	2	100	400	149.18	Moderate
2	CLOCK TOWER- DEHRADUN	3	2012	29.64	27.50	211.35	60.0	2	100	400	174.23	Moderate
3	CLOCK TOWER- DEHRADUN	4	2012	28.64	26.81	230.76	60.0	2	100	400	187.17	Moderate
4	CLOCK TOWER- DEHRADUN	5	2012	31.09	29.30	310.73	60.0	2	100	400	260.73	Poor
5	CLOCK TOWER- DEHRADUN	6	2012	28.73	30.62	200.61	60.0	2	100	400	167.07	Moderate

Visual Studio Code interface showing a Jupyter Notebook titled "Satyam_plots.ipynb". The notebook contains two cells of Python code for plotting air quality data.

Cell 1: Plotting Histogram

```
#plotting Histogram
plt.hist(data['Air Quality'])
plt.xlabel('NH3 in Air')
plt.ylabel('Quality Level')
plt.title("Air Quality with NH3 In Dehradun")
plt.show()
```

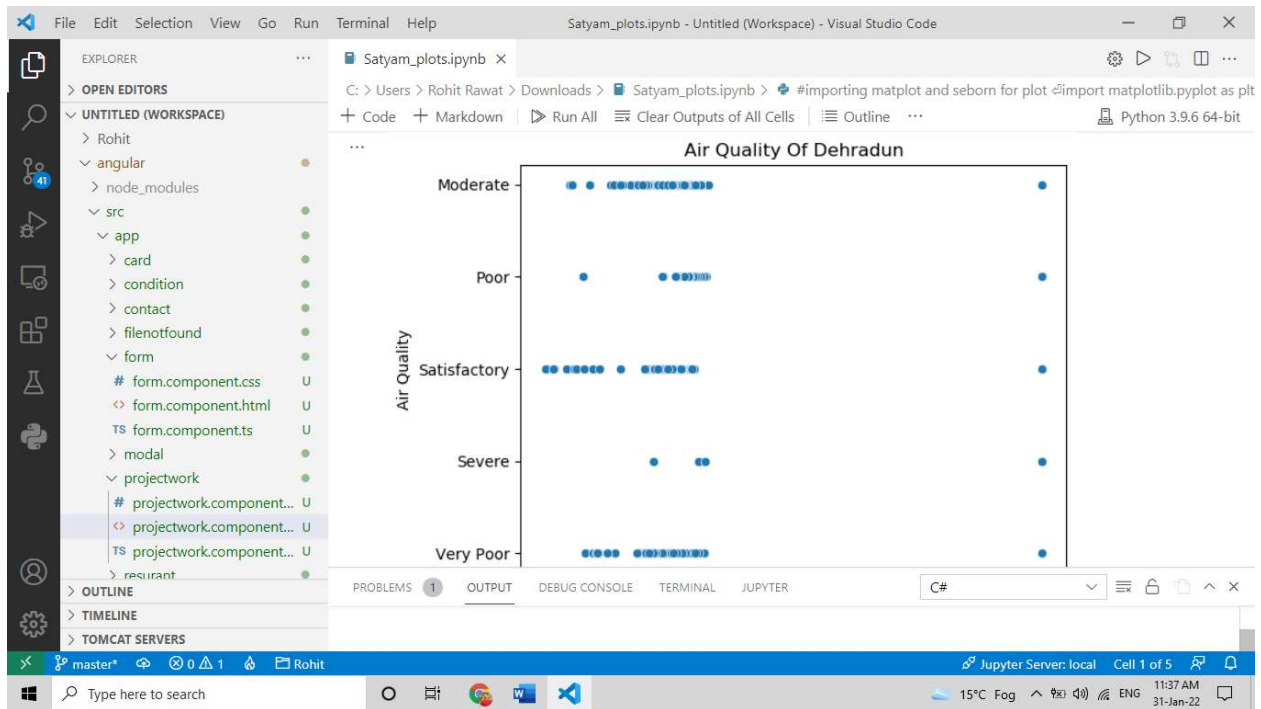
The output of the first cell is a histogram titled "Air Quality with NH3 In Dehradun". The x-axis is labeled "NH3 in Air" and the y-axis is labeled "Level". The histogram shows a single bar with a value of approximately 600.

Cell 2: Plotting Seaborn

```
#plotting Seaborn
sns.scatterplot(x="NO2µg/l", y="Air Quality", data=data)
plt.title('Air Quality Of Dehradun')
plt.show()
```

The output of the second cell is a scatter plot titled "Air Quality Of Dehradun". The x-axis is labeled "NO2µg/l" and the y-axis is labeled "Air Quality". The plot shows data points categorized by air quality levels: Moderate, Poor, Satisfactory, Severe, and Very Poor.

The interface also displays the Explorer sidebar on the left, showing the file structure of the project, including folders like "angular", "node_modules", "src", "app", "card", "condition", "contact", "filenotfound", "form", "modal", "projectwork", and "resurant".



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