

Visual Studio Code interface showing the file explorer on the left with a project structure including folders like 'angular', 'node_modules', 'src', 'app', 'card', 'condition', 'contact', 'filenotfound', 'form', 'modal', 'projectwork', and 'resurant'. The main editor displays the 'Rohit_Rawat_plots.ipynb' file with the following code:

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

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

The output of the code execution is a table showing the first 10 rows of the 'pollution.csv' dataset:

	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

The bottom status bar shows the system tray with weather (11°C Cloudy), time (4:04 AM 01-Feb-22), and other icons.

Visual Studio Code interface showing the same file explorer and editor as above. The main editor displays the 'Rohit_Rawat_plots.ipynb' file with the following code:

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

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Visual Studio Code interface showing a Jupyter Notebook titled "Rohit_Rawat_plots.ipynb".

Code Cell [13]:

```
#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()
```

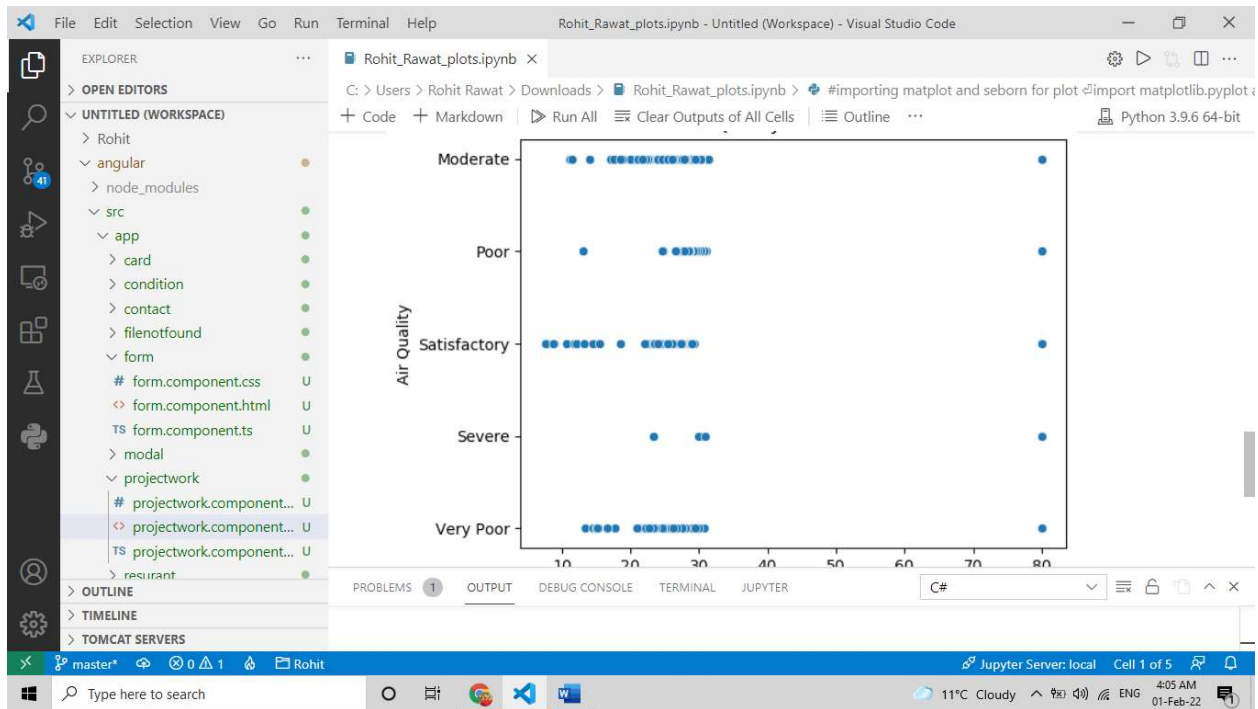
Figure: A histogram titled "Air Quality with NH3 In Dehradun". The x-axis is labeled "NH3 in Air" and the y-axis is labeled "Quality Level". The plot shows a single bar with a value of approximately 600.

Code Cell [17]:

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

Figure: 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 five data points corresponding to the categories: Moderate, Poor, Satisfactory, Severe, and Very Poor. The y-axis values are approximately 250, 75, 140, 25, and 135 respectively.

The interface includes a sidebar with a file explorer showing a project structure with folders like "angular", "node_modules", "src", "app", "card", "condition", "contact", "filenotfound", "form", "modal", "projectwork", and "resurant". The bottom status bar shows the file "Rohit" is open, and the system tray displays the date and time as 4:05 AM on 01-Feb-22.



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Directory: C:\Users\Rohit Rawat\OneDrive\Desktop
Template: C:\Users\Rohit
Rawat\AppData\Roaming\Microsoft\Templates\Normal.dotm
Title:
Subject:
Author: ROHIT RAWAT
Keywords:
Comments:
Creation Date: 01-Feb-22 4:04:00 AM
Change Number: 3
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