```python
import pandas as pd
df = pd.read_csv("/content/final_output.csv")
df.head()
```



```python
import plotly.express as px
fig = px.line(df, x='timestamp', y='pm2_5', color='location',
        title='Time-Series of PM2.5 Concentration by Location')
fig.show()
```

Time-Series of PM2.5 Concentration by Location
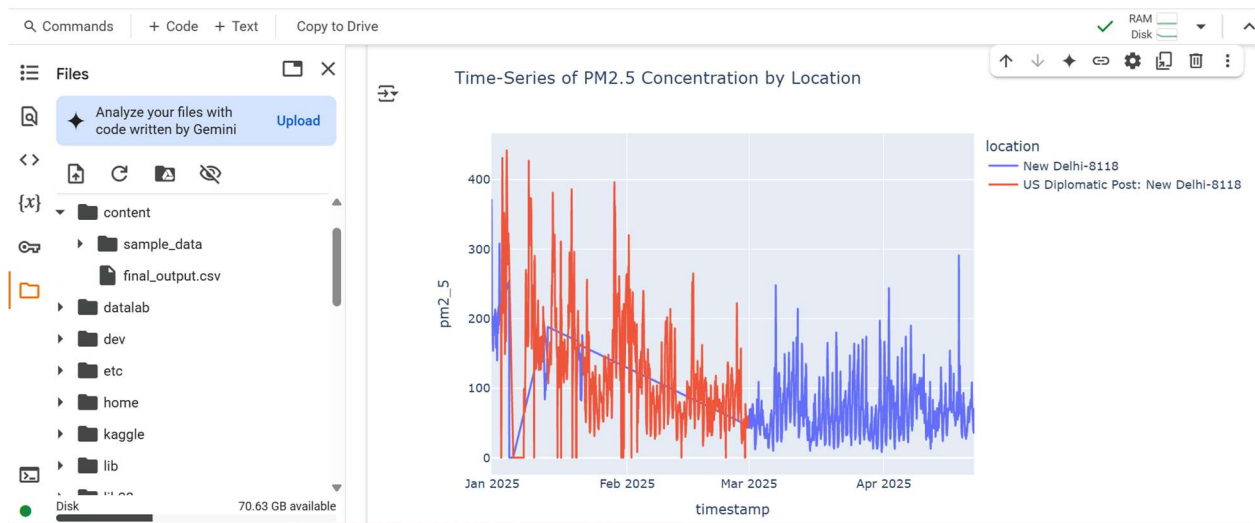
```python
fig = px.pie(df, names='AQI_Category', title='AQI Category Distribution')
fig.show()
```
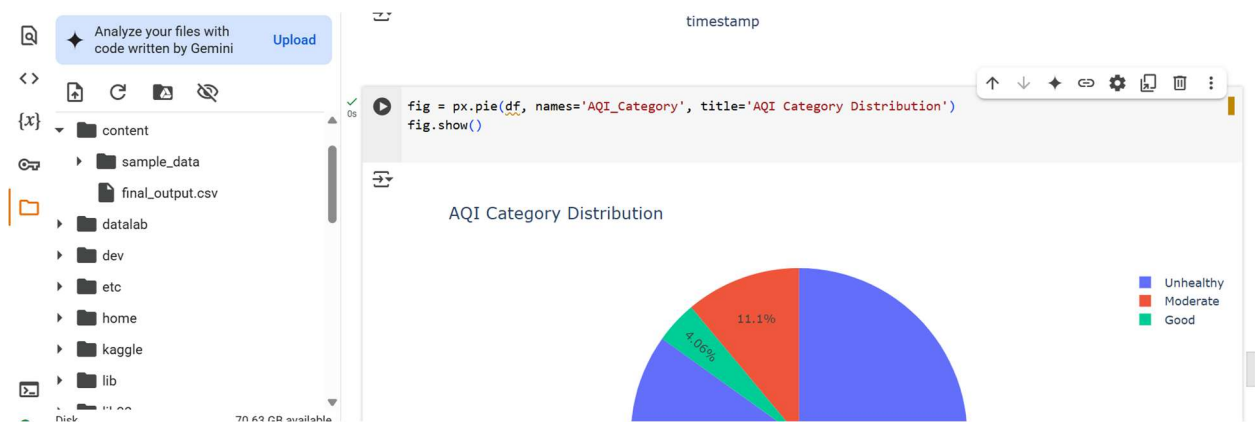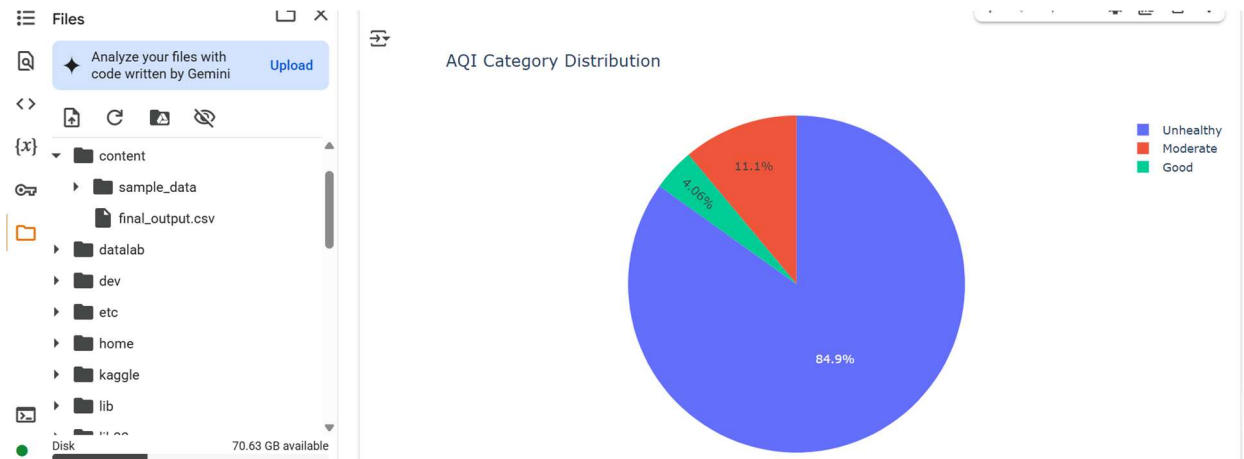

AQI Category Distribution

AQI Category Distribution
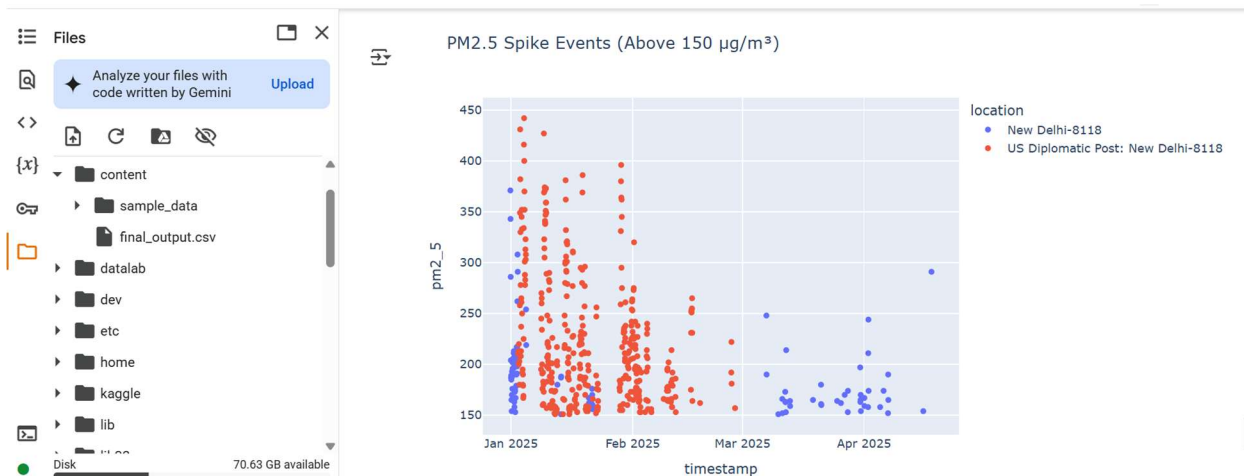
```
spikes = df[df['pm2_5'] > 150]

fig = px.scatter(spikes, x='timestamp', y='pm2_5', color='location',

        title='PM2.5 Spike Events (Above 150 µg/m³)')

fig.show()
```


PM2.5 Spike Events (Above 150 µg/m³)

```
import seaborn as sns

import matplotlib.pyplot as plt

sns.heatmap(df[['pm2_5']].corr(), annot=True, cmap='coolwarm')

plt.title('Correlation Heatmap (PM2.5 only)')

plt.show()
```