

## ✓ Basic Data Visualization with Matplotlib

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This project involves creating a few basic visualizations using Matplotlib to understand data better.

```
# Import libraries
import matplotlib.pyplot as plt
import numpy as np
```

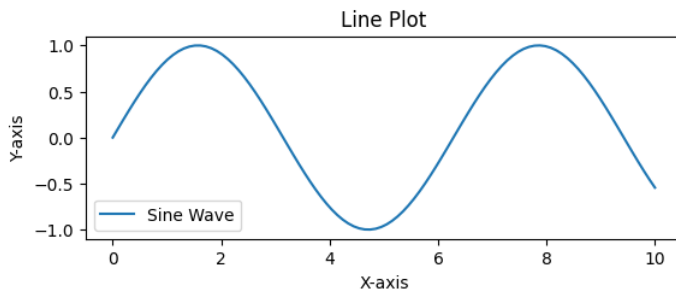
```
# Sample data
x = np.linspace(0, 10, 100)
y = np.sin(x)
```

```
# Plotting
plt.figure(figsize=(10, 6))
```

<Figure size 1000x600 with 0 Axes>  
<Figure size 1000x600 with 0 Axes>

```
# Line plot
plt.subplot(2, 1, 1)
plt.plot(x, y, label='Sine Wave')
plt.title('Line Plot')
plt.xlabel('X-axis')
plt.ylabel('Y-axis')
plt.legend()
```

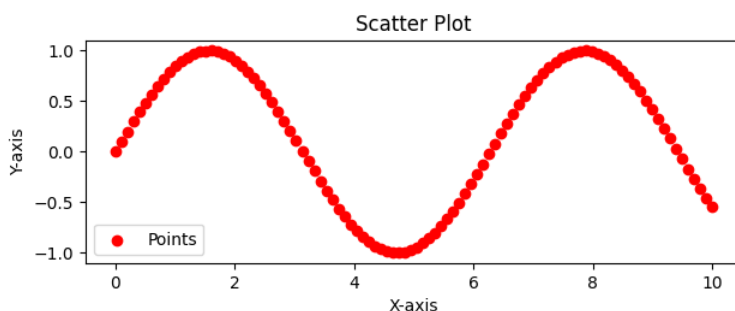
<matplotlib.legend.Legend at 0x7bf010157d00>



```
# Scatter plot
plt.subplot(2, 1, 2)
plt.scatter(x, y, color='red', label='Points')
plt.title('Scatter Plot')
plt.xlabel('X-axis')
plt.ylabel('Y-axis')
plt.legend()
```

```
plt.tight_layout()
plt.show()
```

<matplotlib.figure.Figure at 0x7bf010157d00>



Start coding or generate with AI.

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