**Installation of Matplotlib & Seaborn**

Before using these libraries, they must be installed. The installation can be done using pip, the Python package manager.

**1. Install Matplotlib**

Matplotlib can be installed using the following command:

pip install matplotlib

**2. Install Seaborn**

Seaborn depends on Matplotlib and Pandas, so installing it ensures all required dependencies are available.

pip install seaborn

**3. Usage of Matplotlib & Seaborn**

**3.1. Basic Plot with Matplotlib**

**Example:** Line Plot

import matplotlib.pyplot as plt

# Sample data

x = [1, 2, 3, 4, 5]

y = [10, 20, 25, 30, 40]

# Create line plot

plt.plot(x, y, marker='o', linestyle='-', color='b', label="Growth")

# Add labels and title

plt.xlabel("X-axis")

plt.ylabel("Y-axis")

plt.title("Basic Line Plot")

plt.legend()

# Show the plot

plt.show()

**3.2. Bar Chart with Seaborn**

Seaborn simplifies plotting by integrating well with Pandas DataFrames.

**Example:** Bar Chart

import seaborn as sns

import matplotlib.pyplot as plt

import pandas as pd

# Sample data

data = {"Category": ["A", "B", "C", "D"], "Values": [40, 70, 30, 85]}

df = pd.DataFrame(data)

# Create bar plot

sns.barplot(x="Category", y="Values", data=df, palette="Blues")

# Add title

plt.title("Bar Chart using Seaborn")

plt.show()

**3.3. Pie Chart with Matplotlib**.

**Example:** Pie Chart

# Sample data

labels = ["Apple", "Banana", "Cherry", "Date"]

sizes = [30, 45, 15, 10]

# Create pie chart

plt.pie(sizes, labels=labels, autopct="%1.1f%%", colors=['red', 'yellow', 'pink', 'brown'])

# Add title

plt.title("Pie Chart Example")

plt.show()