# **Simple Sales Data Visualization Report**

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Course:

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**Introduction**

**Data visualization plays a crucial role in understanding and analyzing sales trends. By using graphical representations, businesses can gain insights into their performance and make informed decisions. This report demonstrates a simple sales data visualization using Python's Matplotlib and Seaborn libraries.**

**Methodology**

**Data Collection**: The sales data was collected from a hypothetical dataset containing sales figures for different products over a period.

**Data Processing**: The data was cleaned and formatted using Pandas.

**Data Visualization**: Bar charts, line plots, and scatter plots were used to analyze sales trends.

**Implementation**: Python programming language with Matplotlib and Seaborn libraries was used to generate the visualizations.

**Code Typed**

import pandas as pd

import matplotlib.pyplot as plt

# Load the data

file\_path = "sales\_data.csv"

df = pd.read\_csv(file\_path)

# Convert Date column to datetime

df["Date"] = pd.to\_datetime(df["Date"])

# Aggregate revenue by product

product\_revenue = df.groupby("Product")["Revenue"].sum()

# Plot bar chart

plt.figure(figsize=(10, 5))

product\_revenue.plot(kind="bar", color="skyblue", edgecolor="black")

plt.xlabel("Product")

plt.ylabel("Total Revenue")

plt.title("Total Revenue per Product")

plt.xticks(rotation=45)

plt.grid(axis="y", linestyle="--", alpha=0.7)

# Show the plot

plt.show()

# Output

