School: SOET Campus: Vzm

Academic Year: 2021/25 Subject Name: DAVP Subject Code: CVtm1018

Semester: 7th Program: B.TECH Branch: ECE Specialization: ECE

Date:

Applied and Action Learning

(Learning by Doing and Discovery)

Name of the Experiement : Create a scatterplot to analyze the relationship btw advertising expenses.

Coding Phase: Pseudo Code / Flow Chart / Algorithm

→ Import pandas for data handling and matplotlib for plotting

→ load the dataset using pd.read_csv() to create a Data -frame.

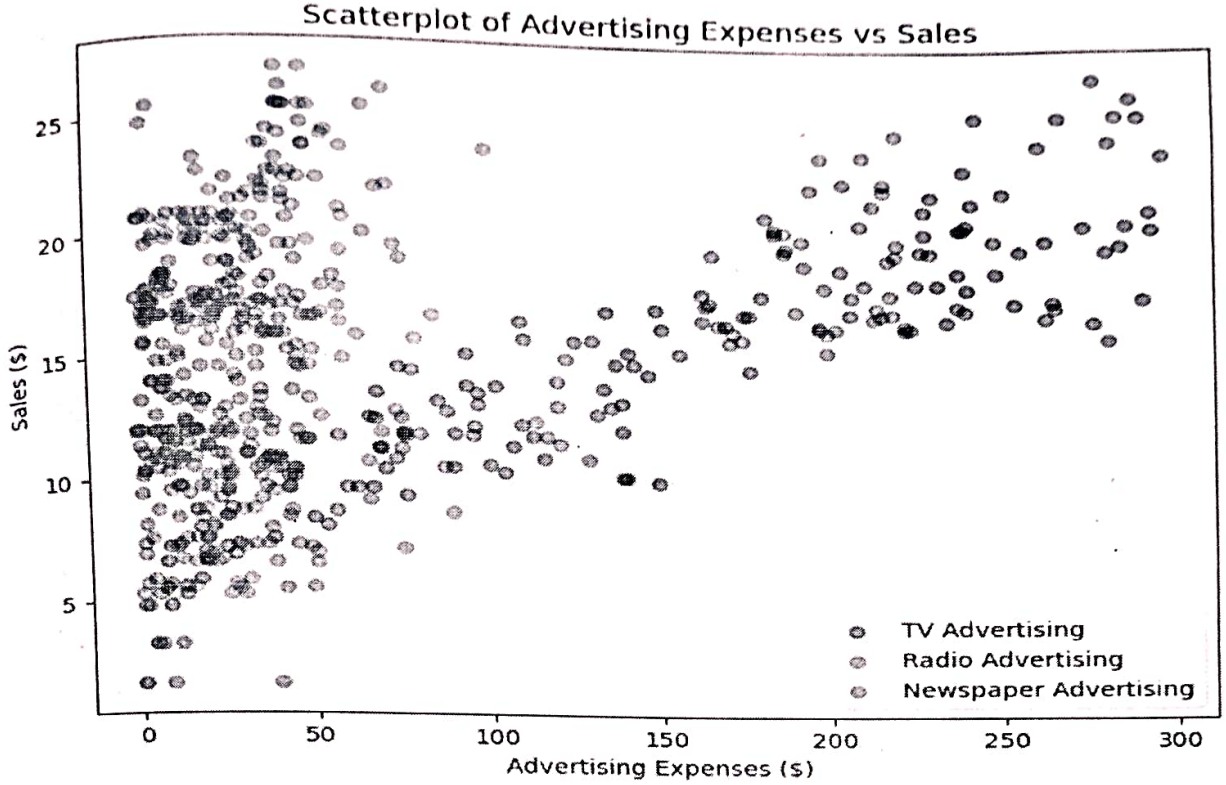
→ inspect the dataset by displaying the first few rows with df.head()

→ create scatterplots for each advertising type against sales using plt.scatter(), applying different colors for each types.

→ set the plot.tittle() and label the x-axis and y-axis using plt.xlabel() and plt.ylabel()

Testing Phase: Compilation of Code (error detection)

Implementation Phase: Final Output (no error)



ASSESSMENT

Rubrics	Full Mark	Marks Obtained	Remarks
Concept	10		
Planning and Execution/ Practical Simulation/ Programming	10		
Result and Interpretation	10		
Record of Applied and Action Learning	10		
Viva	10		
Total	**50**		

Signature of the Student: G. Sumanth

Name : G. Sumanth

Regn. No. : 2118011310 01

Signature of the Faculty:

```
Import pandas as pd
Import matplotlib.pyplot as plt
df = pd.read_csv('advertising.csv')
print(df.head())
plt.figure(figsize=(8,6))
plt.scatter(df['TV'], df['sales'], color='blue', label='TV
                Advertising', alphs=0.5)
plt.scatter(df['Radio'], df['Scales'], color='red', label='Radio
                Advertising', alpha=0.5)
plt.scatter(df['Newspaper'], df['Scales'], color='green', label=
        'Newspaper Advertising', alpha=0.5)
plt.title('Scatterplot of Advertising Expenses vs Sales')
plt.xlabel('Advertising Expenses ($)')
plt.ylabel('Sales ($)')
plt.legend()
plt.show()
```