# Third Year B. Tech (EL & CE)

**Semester: VI Subject:** Data Science for Engineering

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**Roll No: 52 Batch: A2**

# Experiment No: 08

**Name of the Experiment**: **Data Visualization Techniques in Python**

**Performed on: 25/04/2024**

**Submitted on: 25/04/2024**

**Problem Statement:**

**Aim:** Implement various data visualization techniques in Python using Matplotlib and Seaborn libraries to analyze and represent data effectively.

(Attempt any 5).

i. Read Total profit of all months and show it using a line plot.

ii. Generate above plot with following style

a. Line Style dotted Line-color should be red

b. Show legend at the lower right location.

c. X label name = Month Number

d. Y label name = Sold units number

e. Add a circle marker.

f Line marker color as read

g. Line width should be 3

iii. Read the total profit of each month and show it using the histogram to see the most common profit ranges.

iv. Calculate total sale data for last Product and show it using a Pie

v. Read all product sales data and show it using the stack plot.

vi. Read all product sales data and show it using a multi line plot. Display the number of units sold per month for each product using multi line plots. (i.e., Separate Plotline for each product).

viii Read toothpaste sales data of each month and it using a scatter plot

ix Read face cream facewash sales data and show it using the bar chart

































