  

Boot Camp on Artificial Intelligence



**Practical Assignment – 2**

**Group Members:**  **PRN:**

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**Date of Submission: Maximum Marks:**

# Lab Assignment: Data Visualization Using Python Objective:

To visualize data using Python libraries Matplotlib and Seaborn. You will create and interpret various types of plots using the provided dataset, enhancing your ability to communicate insights through data visualization.

# Tasks:

1. Load and inspect the dataset.
2. Visualize the sales distribution across product categories using a **bar plot**.
3. Visualize the relationship between **Sales** and **Profit** using a **scatter plot**.
4. Create a **histogram** to display the distribution of **Quantity** sold.
5. Generate a **box plot** to compare **Discounts** given in each **Region**.
6. Create a **heatmap** showing the correlation between different numerical variables.