

Boot Camp on Artificial Intelligence

Practical Assignment – 2

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22TCOMP2071
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22TCOMP2109

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.