

Stats Project-

1. Data Handling:

- How would you handle missing values in a dataset? Describe at least two methods.
- Explain why it might be necessary to convert data types before performing an analysis.

2. Statistical Analysis:

- What is a T-test, and in what scenarios would you use it? Provide an example based on sales data.
- Describe the Chi-square test for independence and explain when it should be used. How would you apply it to test the relationship between shipping mode and customer segment?

3. Univariate and Bivariate Analysis:

- What is univariate analysis, and what are its key purposes?
- Explain the difference between univariate and bivariate analysis. Provide an example of each.

4. Data Visualization:

- What are the benefits of using a correlation matrix in data analysis? How would you interpret the results?
- How would you plot sales trends over time using a dataset? Describe the steps and tools you would use.

5. Sales and Profit Analysis:

- How can you identify top-performing product categories based on total sales and profit? Describe the process.
- Explain how you would analyze seasonal sales trends using historical sales data.

6. Grouped Statistics:

- Why is it important to calculate grouped statistics for key variables? Provide an example using regional sales data.