**Statistical Assessment for Data Analyst**

Required Dataset: Car\_Assignment.xlsx

**Questions:**

(For Q1 to Q3, use CarAssignment1 sheet)

1 What approach would you take to build a model predicting price based on the dataset? Outline the steps and explain the challenges you have faced.

2. Build binary classification models to identify important factors affecting the success of a car model. Additionally, compare different binary classification models based on theoretical advantages, practical usage, likelihood metrics, and model performance metrics.

3. Use clustering techniques to segment cars into groups based on features like engine size, price, fuel type, and sales performance. Explain your choice of algorithm and how you determine the optimal number of clusters.

4. Find car sales data in CarAssignment2, Give the best sales weekly forecast value for the next quarter (From Jan to Mar). You can use multiple models, and justify your forecast value as the best.

5. Find the relationship between price and ad spend on sales using data in a sheet named CarAssignment3.