**Team 8 (DataVerse)**

**Topic Proposal:**

The main objective of this project is to estimate the used car prices based on several attributes which include numerical and categorical values using Exploratory Data Analysis and Statistical Testing.

**SMART Questions:**

What are the factors affecting the prices of used cars?

**Specific:** Performing Exploratory Data Analysis (EDA) and Hypothesis Testing to check the impact of the features on the used cars based on their prices.

**Measurable:** We will use a few distinct measurable metrics such as MAE, MSE, RMSE, r-square and adjusted r-square.

**Achievable**: Subject to the analysis which will be done in the initial phase we will be able to find the relationship between the car price and its relevant independent variables.

**Relevant:** This project will help the users who are willing to buy used cars and those who are selling them can get a better deal and there will be no involvement of the third party.

**Time-Oriented:** The initial analysis and the modeling part will be completed by October 26 with the presentation. And the summary paper will be submitted by November 2.

**Source of Dataset:**

**The source of our data set:** Used cars catalog on Kaggle

<https://www.kaggle.com/datasets/lepchenkov/usedcarscatalog?selectcars.csv=>

**Number of Observations**: 38,532 observations.

**Team GitHub Repository Link:**

Please find the GitHub Repository link below: <https://github.com/MANOJKUMAR1302/22FA_Dataverse_Team08>