Design:

The project is investigating the price of the used car in auction. The dataset is provided on (Kaggle.com) Applying machine learning model on this dataset will demonstrate the factor that affect the used car price in market

Project Questions:

* What are the main features that affect the price of used car?
* What is the relation between odometer & selling price?
* Should the seller trust MMR (Manheim Market Report)?
* What is the relation between the MMR and the age of the car?
* When do people usually sell their car?
* Does the color of the car enhance its price as used car?

Data:

The dataset contains about 55,000 data points and contains 16 features . The feature that are likely to be used: (Model "year" , Odometer, Color, Interior, car company MMR, Selling Price)

Models & Model Evaluation:

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| Model | Model Evaluation Metrics |
| * Linear regression * K- Nearest neighbor * Classification   \*One or two of those will be chosen to create the data model\* | * Mean Square Error * Mean Absolute Error * F1, Recall, Precision، Accuracy   \*One or two of those will be chosen to evaluate and validate the model\* |

Tools:

- NumPy and Pandas for data manipulation

- Scikit-learn for modeling

- Matplotlib, Seaborn, Bokeh for visualization