

Secondhand Car Price Prediction

Olatunji Damilare Emmanuel

Here is a brief overview of the

v.id:

•Unique identifier for each vehicle.

on road old:

■The original on-road price of the car when it was first purchased.

on road now:

■The current on-road price of the car.

About Dataset

- ■The age of the car in years.
- Rating:
- *A rating score that reflects the car's overall performance and *economy: user satisfaction.
- •Condition:
- The current condition of the car (e a excellent and fair)

•The total kilometers the car has been driven.

The fuel economy of the car, typically measured in kilometers per liter or miles

Prop speed: The maximum speed the car can achieve.

•hp: The horsepower of the car.

•torque: The torque produced by the car's engine.

-current price: The current market price of the car.

Methodology Overview

Processes in getting the work done

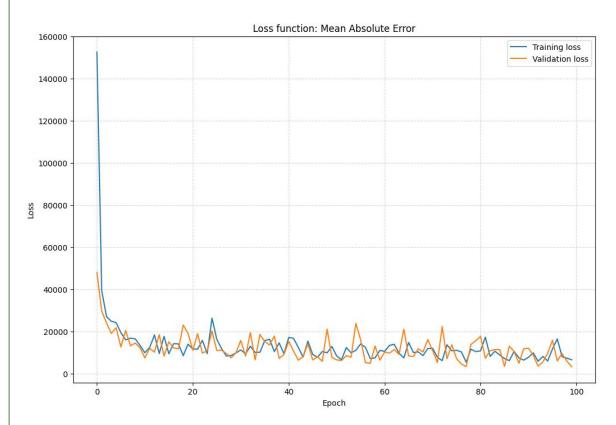
Data loading, preprocessing and exploratory data analysis

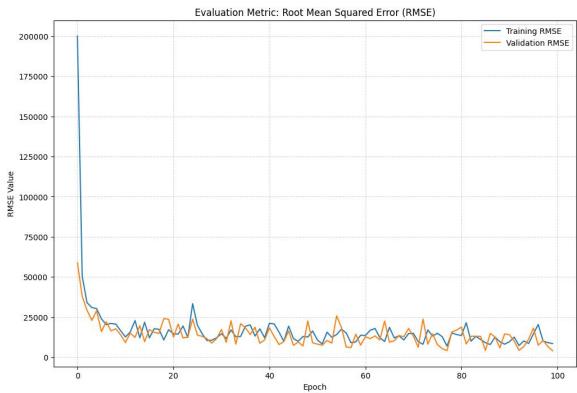
Feature Engineering Model
Training
and
Evaluation

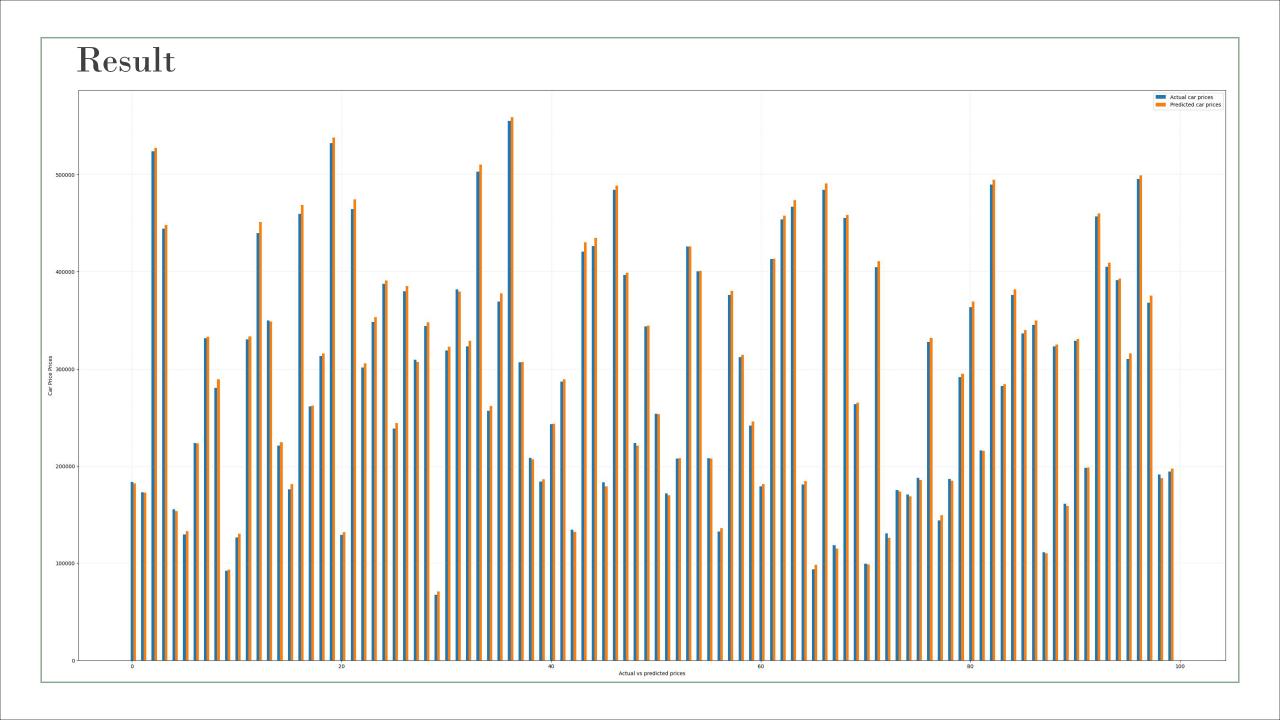
- · Check for null values
- Check for duplicated records
- Statistical summary
- Shapiro-Wilk test for data distribution confirmation
- Correlation matrix

- Univariate Selection used SelectKBest class to select number of features.
- Data Normalization
- •Train-test-split: 80 10-10
- Model set-up: Three (3)
 hidden layers with 128
 neurons, activation
 function = "relu" and
 an output layer.
- Evaluation metric: Root Mean Square Error
- Loss function: Mean Absolute Error

Model Evaluation







Thank you

Olatunji Damilare Emmanuel +2348103966057 | olatunjidamilare.e@gmail.com Source code: https://github.com/DAMILARE1012/second_hand_car_prediction