



Group Members Md Hammad Rasheed Md Amash Shams Assignment: Capstone_Project

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Dataset: CAR_DETAILS.csv

Objective:

Based on dataset we have to build Machine Learning model to Predict Selling Price of Car.







Dataset Preview:

| 1 | name | ▼ year ▼ | selling_price 🔽 km | _driven fuel | ▼ seller_type | ▼ transmission | ▼ owner | ₹ |
|----|---------------------------|----------|--------------------|---------------|---------------|----------------|----------------|---|
| 2 | Maruti 800 AC | 2007 | 60000 | 70000 Petrol | Individual | Manual | First Owner | |
| 3 | Maruti Wagon R LXI Minor | 2007 | 135000 | 50000 Petrol | Individual | Manual | First Owner | |
| 4 | Hyundai Verna 1.6 SX | 2012 | 600000 | 100000 Diesel | Individual | Manual | First Owner | |
| 5 | Datsun RediGO T Option | 2017 | 250000 | 46000 Petrol | Individual | Manual | First Owner | |
| 6 | Honda Amaze VX i-DTEC | 2014 | 450000 | 141000 Diesel | Individual | Manual | Second Owner | |
| 7 | Maruti Alto LX BSIII | 2007 | 140000 | 125000 Petrol | Individual | Manual | First Owner | |
| 8 | Hyundai Xcent 1.2 Kappa S | 2016 | 550000 | 25000 Petrol | Individual | Manual | First Owner | |
| 9 | Tata Indigo Grand Petrol | 2014 | 240000 | 60000 Petrol | Individual | Manual | Second Owner | |
| 10 | Hyundai Creta 1.6 VTVT S | 2015 | 850000 | 25000 Petrol | Individual | Manual | First Owner | |





Analyzing Dataset and there are 8 columns and 4341 rows

Important columns for predicting selling price is based on fuel, seller_type, transmission, owner and Brand. Extracted Brand column in the dataset using Excel



Dataset Preview:

| 1 | name | ▼ Brand | year yes | selling_price 🔽 l | cm_driven ▼ fuel | ▼ seller_type | transmiss | ion 🔻 owner | ₹ |
|-----|--------------------------|---------|----------|-------------------|-------------------------|---------------|-----------|--------------|---|
| 2 1 | Aaruti 800 AC | Maruti | 2007 | 60000 | 70000 Petrol | Individual | Manual | First Owner | |
| 3 N | Maruti Wagon R LXI Minor | Maruti | 2007 | 135000 | 50000 Petrol | Individual | Manual | First Owner | |
| 4 H | lyundai Verna 1.6 SX | Hyundai | 2012 | 600000 | 100000 Diesel | Individual | Manual | First Owner | |
| 5 [| Oatsun RediGO T Option | Datsun | 2017 | 250000 | 46000 Petrol | Individual | Manual | First Owner | |
| 6 H | londa Amaze VX i-DTEC | Honda | 2014 | 450000 | 141000 Diesel | Individual | Manual | Second Owner | |

Saved the file in .csv format.

I found that the dataset have Brand is one of the most important part for selling price of any car model with this number of columns is 9 and number of rows is 4341





Step 2:

For selling price prediction, we have 7 most important our dataset.





Brand

: Tata, Maruti, Audi, Skoda, Fiat, Honda etc.

Driven (KM)

Year

Transmission: Automatic, Manual.

Seller type: Dealer, Individual, Trustmark Dealer.

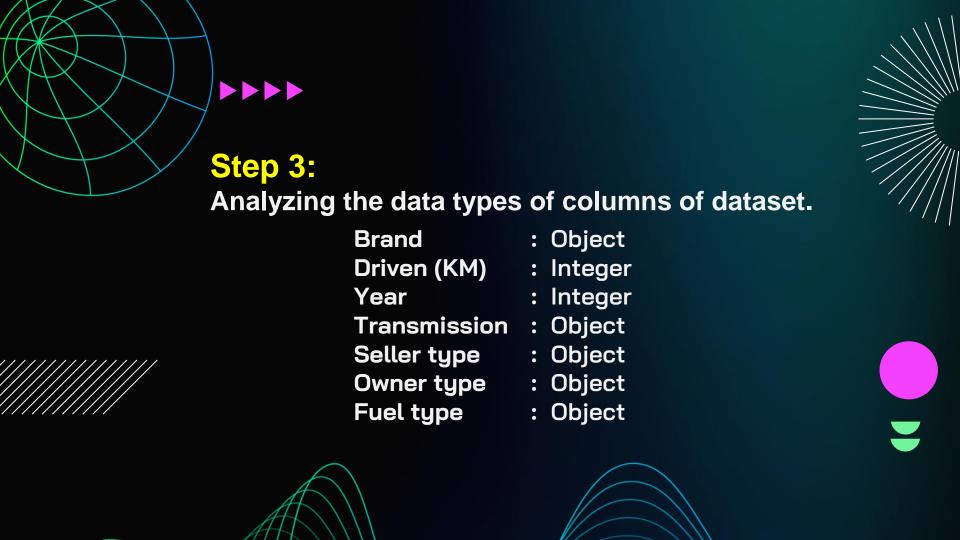
Owner type : First Owner, Second Owner, Third Owner, Fourth and

Above Owner, Test Drive Car.

Fuel type : Petrol, Diesel, LPG, CNG, Electric.







Step 4: Proceed with python programming.



Pandas is a Python library used for working with data sets. It has functions for analyzing, cleaning, exploring, and manipulating data

NumPy

NumPy is a Python library used for working with arrays. It also has functions for working in domain of linear algebra, fourier transform, and matrices.

Scikit-learn

Scikit-learn (Sklearn) is the most useful and robust library for machine learning in Python. It provides a selection of efficient tools for machine learning and statistical modeling including classification, regression, clustering and dimensionality reduction via a consistence interface in Python.











Step 4: Continue...





Matplotlib

Matplotlib is a cross-platform, data visualization and graphical plotting library (histograms, scatter plots, bar charts, etc) for Python and its numerical extension NumPy. As such, it offers a viable open source alternative to MATLAB.

Seaborn

Seaborn is an amazing visualization library for statistical graphics plotting in Python. It provides beautiful default styles and color palettes to make statistical plots more attractive. It is built on top matplotlib library and is also closely integrated with the data structures from pandas.



• Output





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MHR Enterprises Pvt. Ltd.

Welcome to The MHR Enterprises Pvt. Ltd!

We rent and sales cars. This company is based on second hand or branded new cars. All the facility are available here.

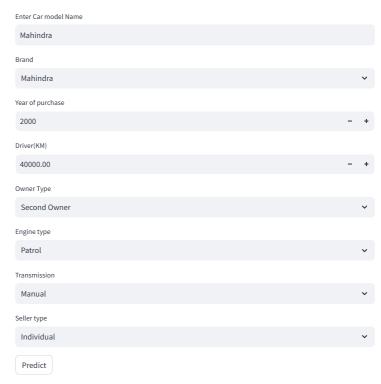
Md Hammad Rasheed Chairman & CEO

Contact Us.

Email:- mdhammadr@gmail.com

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Car_Price_Predictor





Your Input

```
"Name": "Mahindra"

"Brand": "Mahindra"

"Year of purchase": 2000

"Drive(KM)": 40000

"Owner_Type": "Second Owner"

"Engine Type": "Patrol"

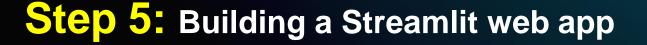
"Transmission Type": "Manual"

"Seller Type": "Individual"
```

Predicted Selling Price

Predicted Selling Price : ₹ 1011651.19

Thank you for your visit!







GitHub Repository Link
Click Here



Streamlit Web App Click Here





Thank You