CAR PRICE PREDICTOR

DATA SCIENCE PROJECT

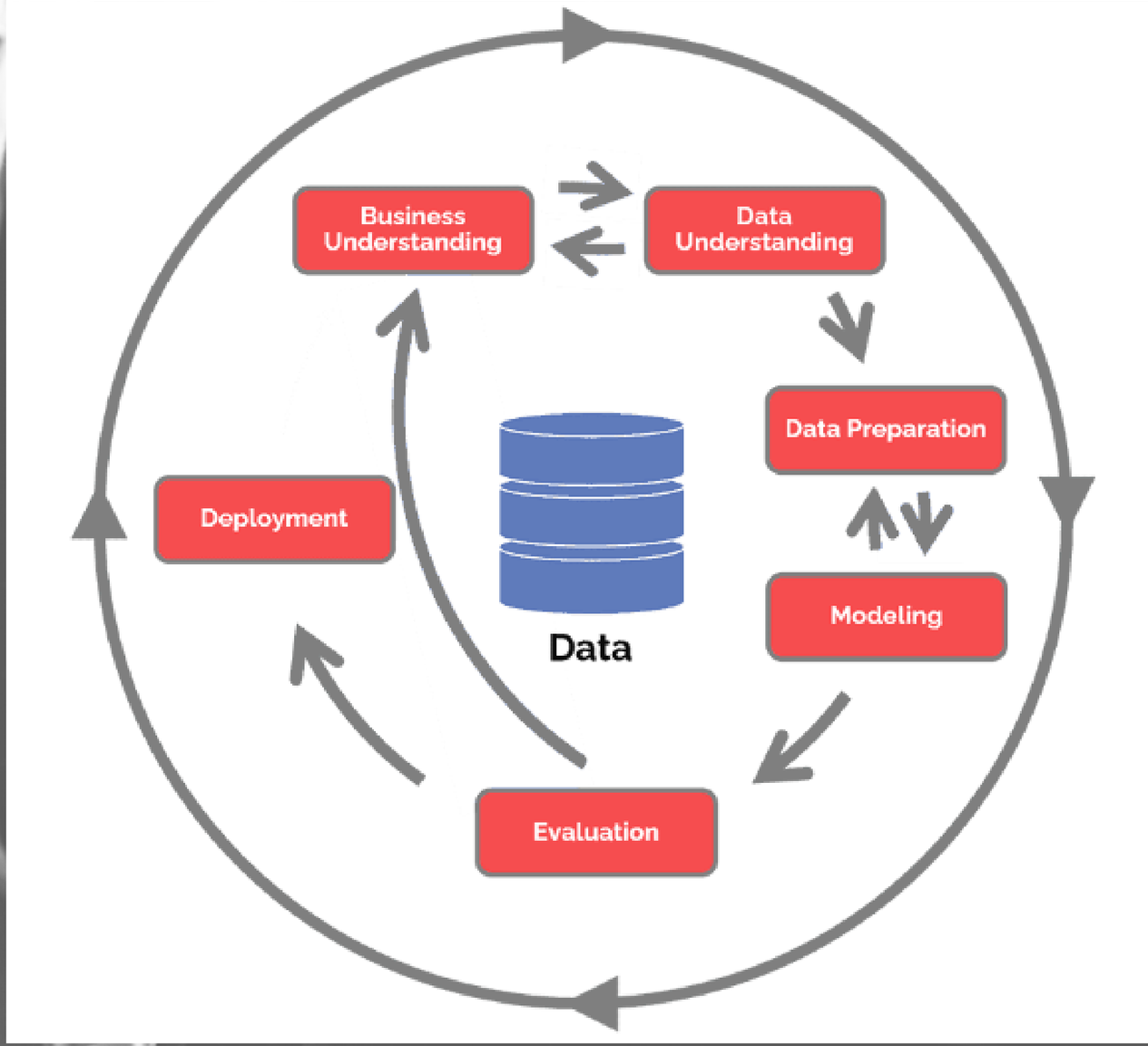
Purani car dekho

Agenda

- Data Science Lifecycle
- Project Overview
- Data
- Analysis
- Modeling
- Model Evaluation
- Recommendations

Data Science Lifecycle

- Business Understanding
- Data Understanding
- Data Preparation
- Modeling
- Evaluation
- Deployment.



Project Overview

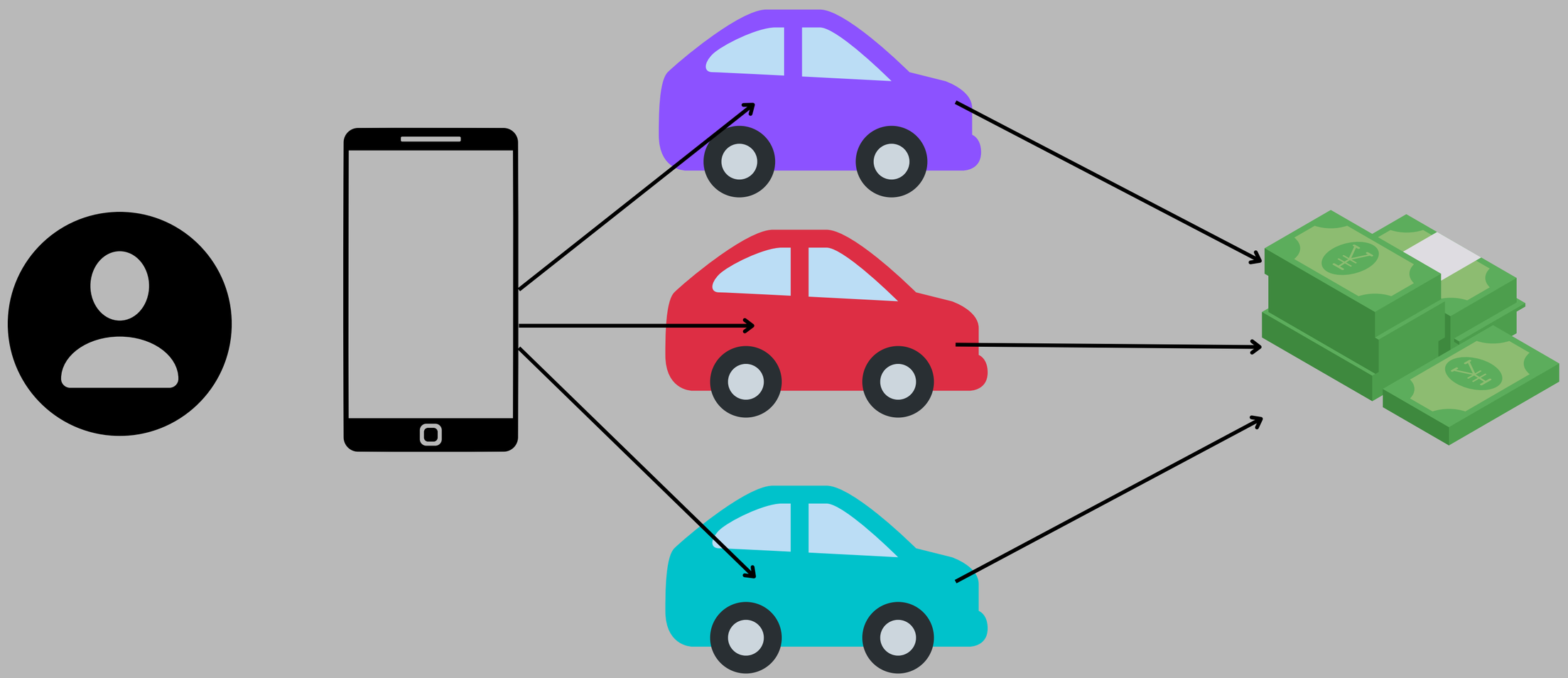
Business Objective:

Make a suitable application where customer select a particular car with in a second application provide a price of that car.

Hypothesis:

we will use the historical data of the **purani car dekho** and make a model for that company and attached to that application.

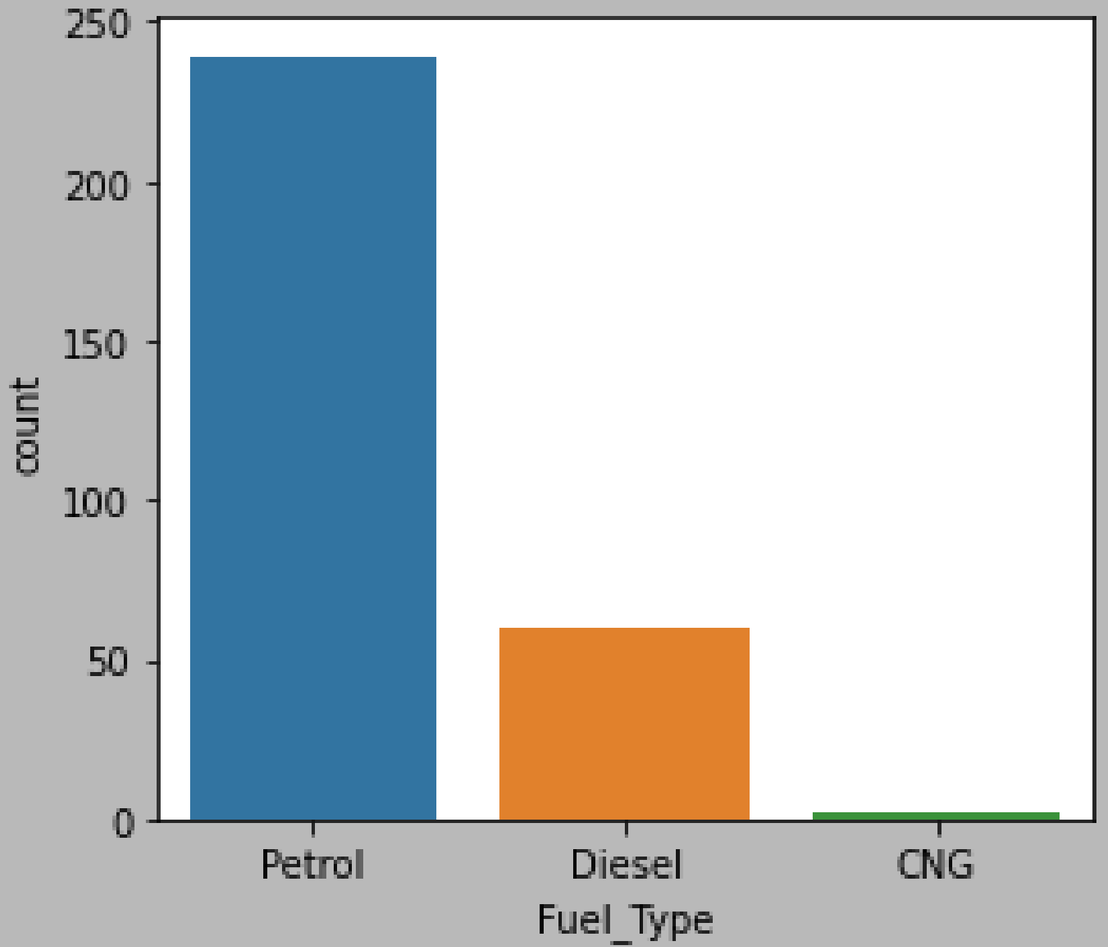
Process Overview / Solution

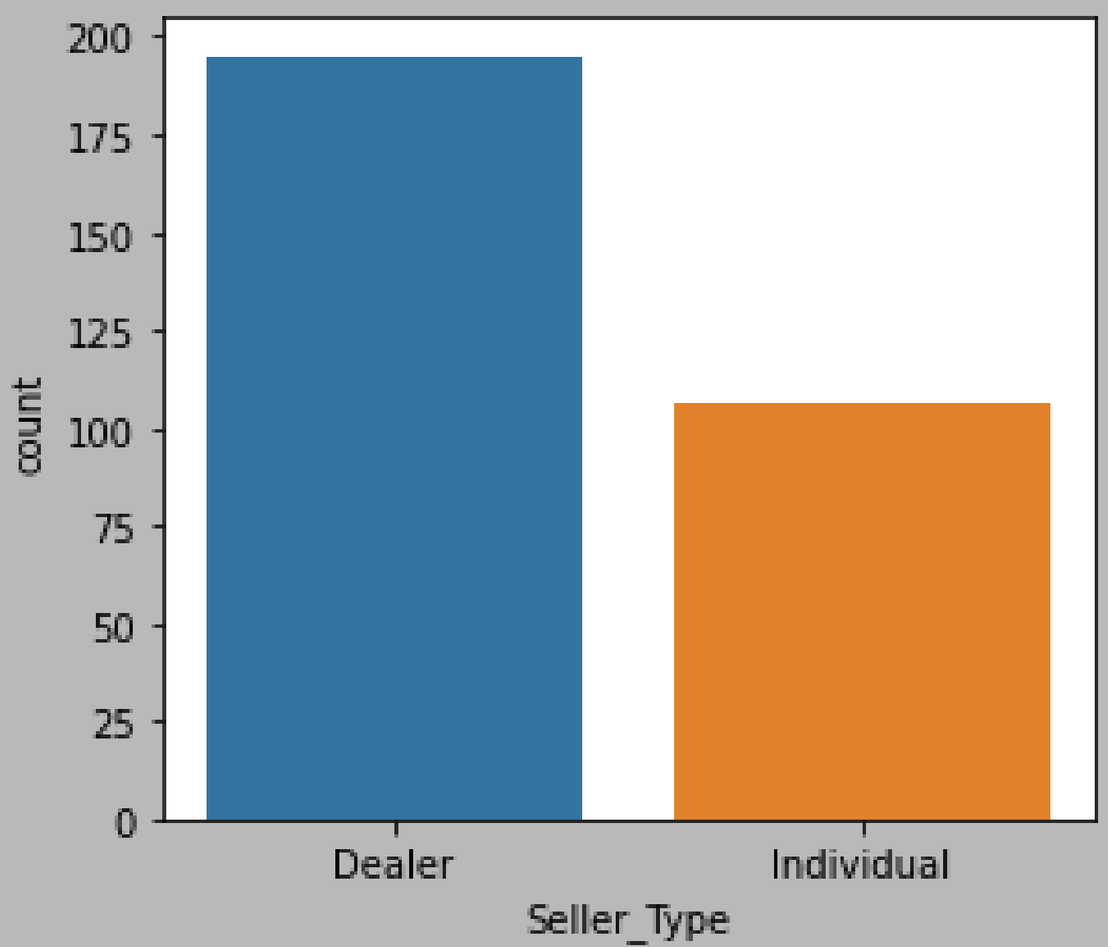


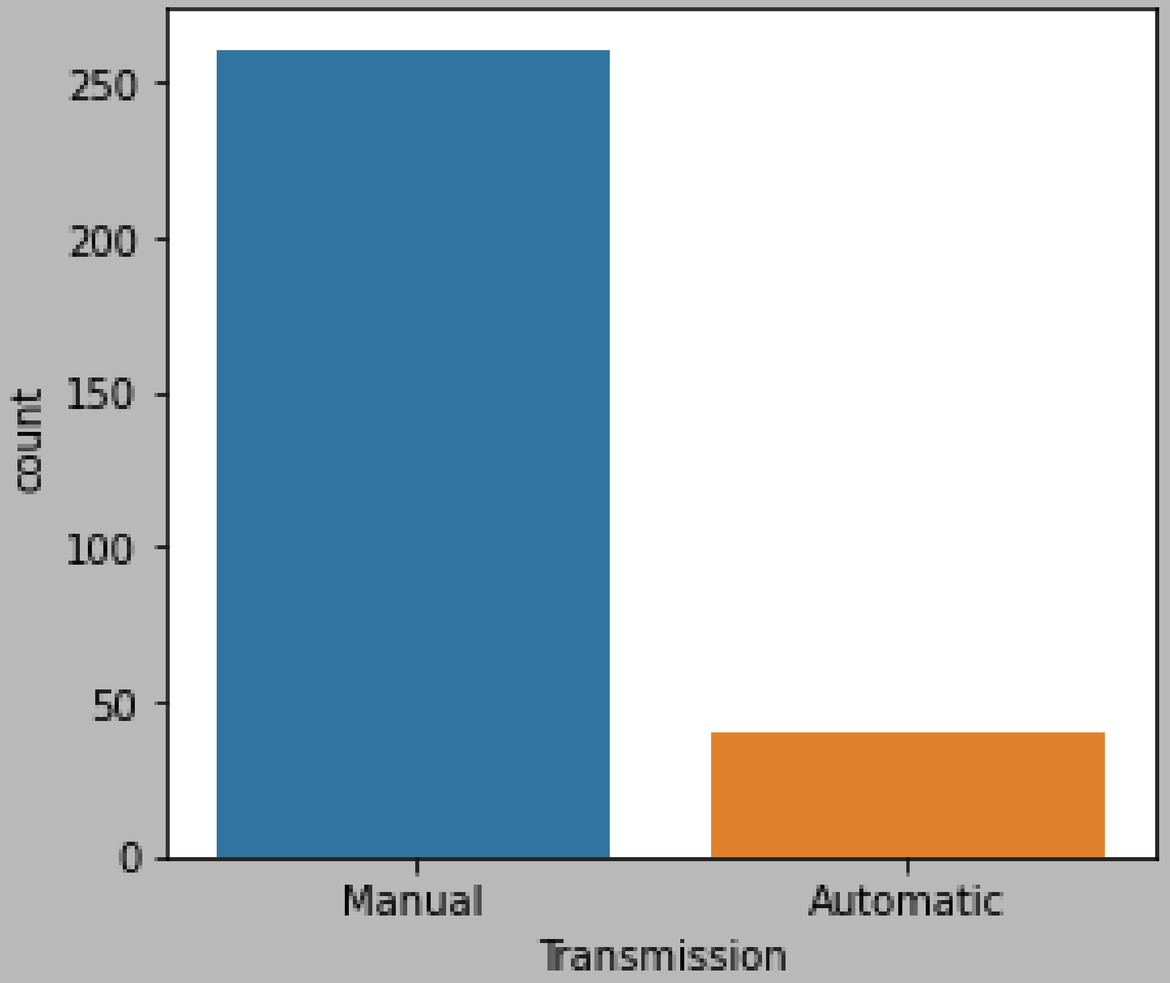
Data

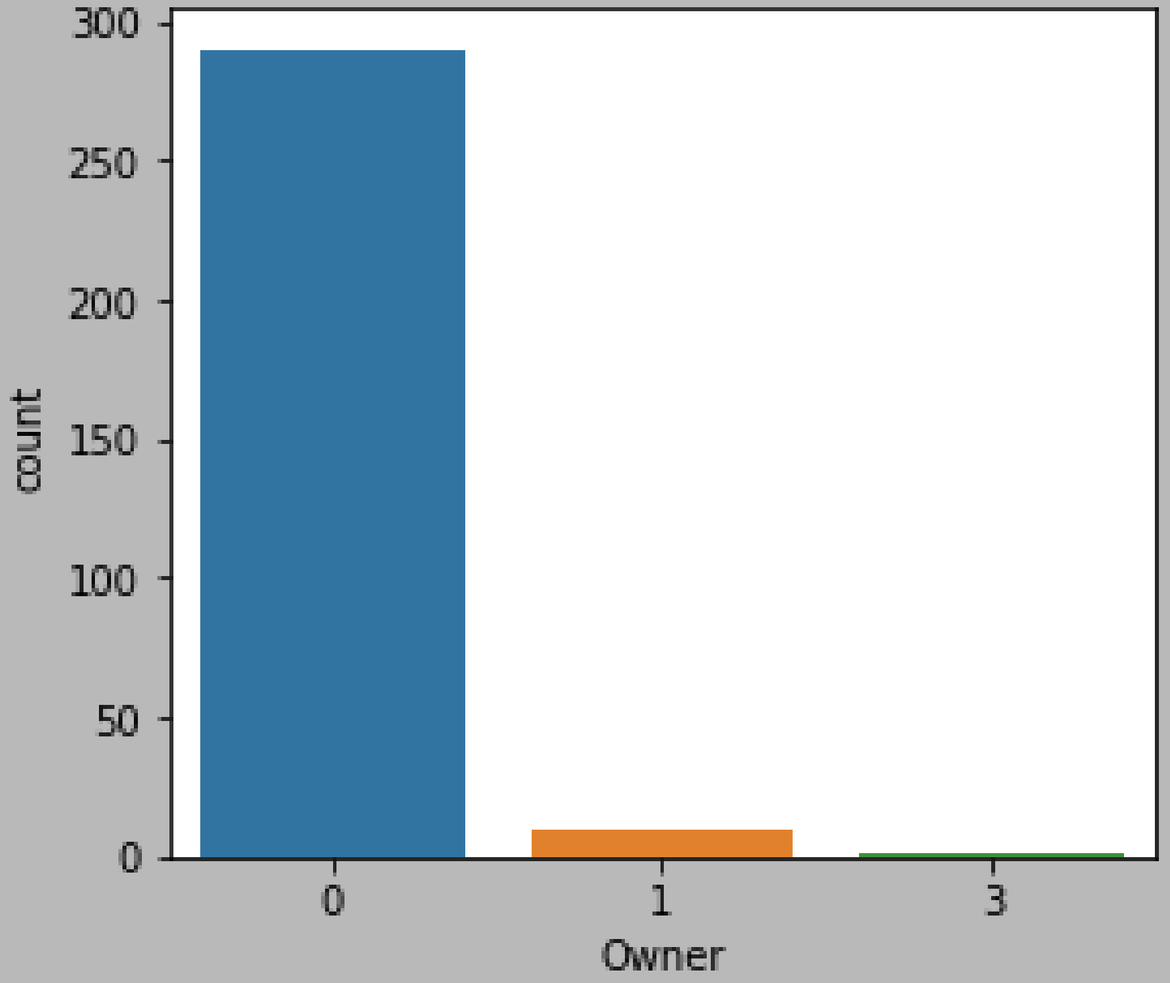
- The number of records – **301**
- The number of columns – **8**
- The number of numerical columns – **4**
- The number of categorical columns – **4**

Analysis


250
200
150
100
50
0
count
Petrol
Diesel
CNG
Fuel_Type


200
175
150
125
100
75
50
25
0
count
Dealer
Individual
Seller_Type


250
200
150
100
50
0
count
Manual
Automatic
Transmission


300
250
200
150
100
50
0
count
0
1
3
Owner

Modeling

Here we can try to make a model having high accuracy.

So,

We trained Machine learning Model through
Linear Regression
Random Forest and also used **Random search CV.**

Model Evaluation

Accuracy with different Algorithms in our Model are as follows:

Linear Regression =	**88%**	**89%**
Random Forest =	**98%**	**91%**
Random Forest with Rcv=	**91%**	**97%**

Looking Ahead

Based on the analysis Random forest Regressor works perform on Data with accuracy 97%. More Test Data will be required to validate the robustness of the model.

More data Required: More Data = Better Model
Try neural network to tune the model for better performance.