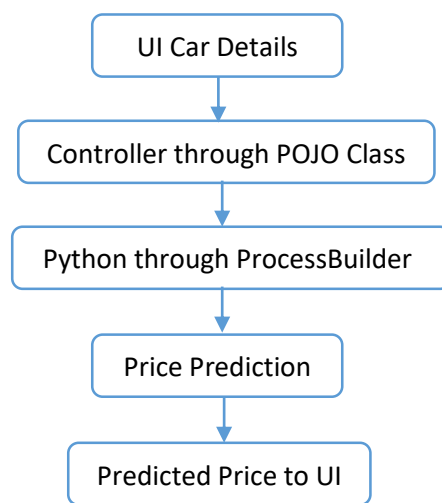


# Car Resale Price Predictor

## Description:

Car resale price predictor is a web application to recommend a resale price to the user based on their car data. Prediction is done by highly efficient ML model trained based on past resale data of various cars sold in the market. Simple user interface with quick response to user has been implemented with Java, Spring MVC and Python. Fully functional web application is deployed in to local host through Apache Tomcat Server.

## High Level Flow



## Web Application:

### Initial Page

The screenshot shows the initial page of the Car Resale Price Predictor web application. The browser address bar displays "localhost:8081/CarePricePredictor/welcome". The page features a header image with the title "Car Resale Price Predictor" overlaid. Below the header, there is a "Car Details" section with a form for inputting car information. The form includes fields for Car Name, Year Of Purchase, KM Driven, No Of Seats, Mileage, Engine (CC), Max Power, and Torque. Additionally, there are dropdown menus for Fuel Type (Petrol), Seller Type (Dealer), Transmission (Automatic), and Owner (First Owner). A "Predict Price" button is located at the bottom of the form.

## Resale Price Prediction

Car Details Filled:

→ ↻ ⓘ localhost:8081/CarePricePredictor/welcome 🔍 ☆ ⚙

# Car Resale Price Predictor

Car Details

Car Name  
Toyota Fortuner 4x4 MT

Year Of Purchase  
2015

KM Driven  
78000

No Of Seats  
7

Mileage  
12.5 Kmpl

Engine (CC)  
2982 CC

Max Power  
168.5 bhp

Torque  
343Nm@ 1400-3400rpm

Fuel Type Diesel

Seller Type Individual

Transmission Manual

Owner Second Owner

Predict Price

Prediction Done for the above Car

→ ↻ ⓘ localhost:8081/CarePricePredictor/details 🔍 ☆ ⚙

Car Details

Car Name  
Toyota Fortuner 4x4 MT

Year Of Purchase  
2015

KM Driven  
78000

No Of Seats  
7

Mileage  
12.5 Kmpl

Engine (CC)  
2982 CC

Max Power  
168Bhp

Torque  
343Nm@ 1400-3400rpm

Fuel Type Diesel

Seller Type Individual

Transmission Manual

Owner Second Owner

Recommended Price is : Rs 1693200

Selling Price :

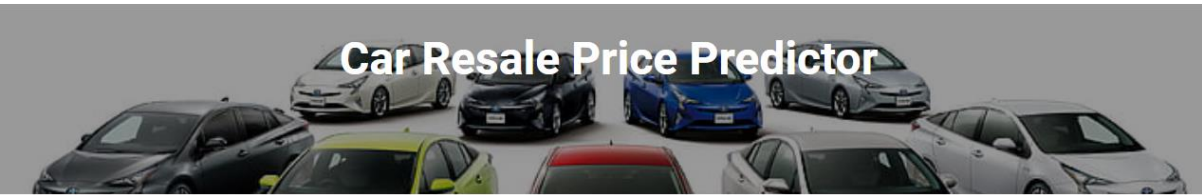
Post for Sell

The predicted price is Rs: 16,93,200 while its actual sold price was Rs: 17,00,000

## Handling Missing Data:

The application is developed in a way to handle the missing data by taking the car details from past data and predict the price.

→ ↻
localhost:8081/CarePricePredictor/welcome



# Car Resale Price Predictor

Car Details

Car Name

Maruti Swift VDI BSIV W ABS

Year Of Purchase

2015

KM Driven

78000

No Of Seats

Mileage

Engine (CC)

Max Power

Torque

Fuel Type

Diesel

Seller Type

Dealer

Transmission

Manual


Owner

First Owner

Predict Price

Predicted Price for the above car

→ ↻
localhost:8081/CarePricePredictor/details



# Car Resale Price Predictor

Car Details

Car Name

Maruti Swift VDI BSIV W ABS

Year Of Purchase

2015

KM Driven

78000

No Of Seats

Mileage

Engine (CC)

Max Power

Torque

Fuel Type

Diesel

Seller Type

Dealer

Transmission

Manual

Owner

First Owner

Recommended Price is : Rs 407900

Selling Price :

Post for Sell

The predicted price is Rs 407900 while its actual sold price was 475000. The model has predicted bit lower than the actual price but the application was able to handle the missing data

## Handling Variable data:

In past data it was noted that some of the user is giving the torque value in KgM while some other users are giving NM standard. This case was also handles during data preprocessing and made the model predictable with variable data

# Car Resale Price Predictor

## Car Details

Car Name Hyundai i20 1.2 Sportz	Year Of Purchase 2012		
KM Driven 93000	No Of Seats 5		
Mileage 17 Kmpl	Engine (CC) 796 CC		
Max Power 80 Bhp	Torque 11.4 kgm at 4000 rpm		
Fuel Type <input type="text" value="Petrol"/>	Seller Type <input type="text" value="Individual"/>	Transmission <input type="text" value="Manual"/>	Owner <input type="text" value="Second Owner"/>

Predict Price

## Predicted Price:

## Car Details

Car Name Hyundai i20 1.2 Sportz	Year Of Purchase 2012		
KM Driven 93000	No Of Seats 5		
Mileage 17 Kmpl	Engine (CC) 796 CC		
Max Power 80 Bhp	Torque 11.4 kgm at 4000 rpm		
Fuel Type <input type="text" value="Petrol"/>	Seller Type <input type="text" value="Individual"/>	Transmission <input type="text" value="Manual"/>	Owner <input type="text" value="Second Owner"/>

Recommended Price is : Rs 222900

Selling Price :

Post for Sell

Predicted price for the car is Rs 2,22,900 while its actual selling price was Rs 2,20,000