User Guide for Streamlit-based CarDekho Price Predication Application

This guide explains how to interact with the **CarDekho-Price Prediction** application built using **Streamlit.** The app allows users to input car details and predict the price based on various features like brand, model, fuel type, etc.

Steps to Use:

1. Input Fields (Left Column):

In the first column, users will provide the following details about the car:

Fuel Type:

- Select the fuel type of the car from options like Petrol, Diesel, LPG, CNG, Electric.

Body Type:

- Choose the body type of the car. Options include **Hatchback, SUV, Sedan, MUV, Coupe, etc.

Transmission:

- Choose whether the car has a Manual or Automatic transmission.

Owner:

- Select how many previous owners the car has had, ranging from 0 to 5.

Brand:

- Select the car brand from the available list of brands in the dataset.

Model:

- After selecting the brand, the app will automatically filter and display the relevant car models. Choose the model from the dropdown.

Model Year:

- Choose the year when the car was manufactured.

Insurance Validity:

- Select the insurance type (e.g., Third Party, comprehensive, Zero Dep, etc.).

Kilometres Driven:

- Use the slider to enter how many kilometres the car has been driven (between 100 and 100,000 km).

Mileage:

- Enter the car's mileage using the number input (range 5-50 km/litre).

Seats:

- Select the number of seats in the car from the dropdown.

Color:

- Choose the color of the car.

City:

- Select the city where the car is located from the dropdown list.

2. Prediction Button (Right Column):

Submit Button:

- Once all input fields are filled, press the **Predict** button in the second column to trigger the price prediction.

Output:

The predicted price of the car will appear on the screen in the format:

The price of the [Brand] car is: [Price] lakhs.

Example Workflow:

Select Fuel type as **Petrol.**

Choose Body type as **Sedan.**

Pick **Automatic** transmission.

Select that the car has had **3** previous owners.

Choose **BMW** as the Brand.

After selecting the brand, a filtered list of models will appear. Choose the **BMW 5 Series** model.

Choose **2011** for the Model Year.

Select **Third Party Insurance** for Insurance Validity.

Use the slider to set Kilometres Driven to 100000 **km.**

Enter the Mileage as **18 km/litre.**

Choose **5 seats** for the car.

Select **Black** as the car's color.

Choose **Bangalore** as the city.

Press **Predict.**

The app will display the entered details and the predicted price of the car, e.g.,

The price of the **BMW** car is: **14.81 lakhs.**