User Guide for Streamlit-based CarDekho Price Prediction 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.Basic Details(First column):

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

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.

Body Type:

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

2. Technical Details(Middle column):

Fuel Type:

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

Transmission:

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

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.

3. Additional Info(Last column):

Previous Owners:

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

Kilometres Driven:

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

City:

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

Color:

• Choose the color of the car.

Insurance Validity:

• Select the insurance type (e.g., Third Party, Comprehensive, Zero Dep, etc.).

4. Prediction Button (Right Column):

Submit Button:

• Once all input fields are filled, press the **Predict Price 🚀** 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: Predicted Price: [Price] Lakhs

Example Workflow:

Choose **BMW** as the Brand.

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

Choose **2013** for the Model Year.

Choose Body type as **Sedan.**

Select Fuel type as **Diesel.**

Pick **Automatic** transmission.

Enter the Mileage as **15 km/litre.**

Choose **5 seats** for the car.

Select that the car has had **2** previous owner.

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

Choose **Delhi** as the city.

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

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

Press Predict Price 🚀 .

The app will display the entered details and the predicted price of the car, e.g., Predicted Price: ₹ **13.77** Lakhs.

Car Price Prediction System

Basic Details

Brand

| BMW | ⌄ |

Model

| BMW 5 Series | ⌄ |

Year

| 2013 | ⌄ |

Body Type

| Sedan | ⌄ |

Technical Details

Fuel Type

| Diesel | ⌄ |

Transmission

| Automatic | ⌄ |

Mileage (km/l)

| 15 | − + |

Seats

| 5 | ⌄ |

Additional Info

Previous Owners

| 2 | ⌄ |

Kilometers Driven

100000

100   100000

City

| Delhi | ⌄ |

Color

| Black | ⌄ |

Insurance Validity

| Third Party insurance | ⌄ |

Predict Price 🚀

Predicted Price: ₹ 13.77 Lakhs

Selected Car Details:

```
▼ {
    "Brand" : "BMW"
    "Model" : "BMW 5 Series"
    "Year" : "2013"
    "Fuel Type" : "Diesel"
    "Transmission" : "Automatic"
    "Kilometers Driven" : "100,000"
    "Mileage" : "15 km/l"
}
```