

User Guide: Car Dheko - Used Car Price Prediction App

Overview

This application allows users to estimate the price of a used car by inputting various car features. The app uses a machine learning model to predict the car's price based on features like car type, mileage, year of manufacture, fuel type, and more.

The app is user-friendly, with a sidebar for input features and a simple "Predict Price" button. Once all car details are entered, the app instantly predicts the price of the car.

Steps to Use the App

1. Open the App

Once the app is deployed, access it through a URL (e.g., localhost:8501 during local development or a hosted web link if deployed online).

The main page consists of:

Sidebar on the left with various input fields.

Prediction Output on the right side of the screen after entering car details.

2. Enter Car Details in the Sidebar

The sidebar contains input fields where you can enter or select car features.

The app requires the following car details:

Input Features:

- Body Type: Select the type of car (e.g., Convertibles, Sedan, SUV).
- Seats: Choose the number of seats (e.g., 2, 4, 5, etc.).
- City: Choose the city where the car is being sold (e.g., Bangalore, Mumbai, Delhi).
- Car Model: Select the car model (e.g., Ambassador, BMW X1).
- Kilometers Driven: Enter the total kilometers driven by the car (e.g., 0, 50000, 100000).
- Year of Manufacture: Select the year the car was manufactured (e.g., 2015, 2018).
- Length (mm): Input the car's length in millimeters (e.g., 4000, 4500).
- Width (mm): Input the car's width in millimeters (e.g., 1500, 1600).
- Fuel Type: Choose the car's fuel type (e.g., Petrol, Diesel, CNG).
- Color: Select the car's color (e.g., Black, Silver, Red).
- Brand Name: Choose the car manufacturer (e.g., Audi, Honda, Ford).
- Insurance Validity: Enter the number of years for which the insurance is valid (e.g., 1, 2).

- Engine Displacement (cc): Enter the engine size (in cubic centimeters, e.g., 1000, 2000).
- Transmission Type: Choose between automatic or manual transmission.

3. Predict the Price

After filling in all the details, scroll down in the sidebar to find the **"PREDICT PRICE" button**.

Click the button to calculate the estimated price based on the input data.

4. View the Estimated Price

Once you click the "Predict Price" button, the estimated price of the car will be displayed on the right side of the screen in green.

The output will show the price in INR format (e.g., ₹ 6,305,255.28).

5. Modify Inputs and Re-Predict

If you wish to modify any input data, go back to the sidebar and update the relevant fields.

After modifying, click the "PREDICT PRICE" button again to get the updated car price.