Car Resale Value Prediction

Flask Application

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from flask import Flask,render_template,request
import jsonify
import requests
import pickle
import numpy as np
import sklearn

from sklearn.preprocessing import StandardScaler
app = Flask(__name__)
model = pickle.load(open('file.pkl','rb'))

@app.route('/',methods=['GET'])
def Home():
  return render_template('index.html')

standard_to = StandardScaler()

@app.route('/predict',methods = ['POST'])
def predict():
    Fuel_Type_Diesel =0
    if request.method == 'POST':
        Year = int(request.form['Year'])
        Present_Price = float(request.form['Present_Price'])
        Kms_Driven = int(request.form['Kms_Driven'])
```

```
Owner = int(request.form['Owner'])
Fuel_Type_Petrol = request.form['Fuel_Type_Petrol']
if(Fuel_Type_Petrol == 'Petrol'):
    Fuel_Type_Diesel = 0
    Fuel_Type_Petrol = 1

elif(Fuel_Type_Diesel=='Diesel'):
    Fuel_Type_Petrol = 0
    Fuel_Type_Diesel = 1
else:
    Fuel_Type_Petrol = 0
    Fuel_Type_Diesel = 0

Year = 2020 - Year
Seller_Type_Individual = request.form['Seller_Type_Individual']
if(Seller_Type_Individual=='Individual'):
    Seller_Type_Individual =1
else:
    Seller_Type_Individual = 0

Transmission_Manual = request.form['Transmission_Manual']
if(Transmission_Manual == 'Manual'):
    Transmission_Manual = 1
else:
    Transmission_Manual = 0
```

```
        prediction =
model.predict([[Present_Price,Kms_Driven,Owner,Year,Fuel_Type_Diesel,Fuel_Type_Petrol,Seller_T
ype_Individual,Transmission_Manual]])

        output = round(prediction[0],2)



        if output<0:

            return render_template('index.html',prediction_text='Sorry! You cannot sell this car')

        else:

            return render_template('index.html', prediction_text='You can sell this car at Rs.{}
lakhs'.format(output))



    else:

        return render_template('index.html')




if __name__ == '__main__':

    app.run(debug=True)
```