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

app = Flask("car_model")

model = pickle.load(open('model.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'])
        Year = 2020 - Year
        Present_Price = float(request.form['Present_Price'])
        Kms_Driven = int(request.form['Kms_Driven'])
        Kms_Driven2 = np.log(Kms_Driven)
        Owner = int(request.form['Owner'])
        Fuel_Type_Petrol = request.form['Fuel_Type_Petrol']

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

        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 == 'Mannual'):
            Transmission_Manual = 1
        else:
            Transmission_Manual = 0
        prediction = model.predict([[Present_Price, Kms_Driven2, Owner, Year, Fuel_Type_Diesel,
                                     Fuel_Type_Petrol, Seller_Type_Individual, Transmission_Manual]])
        output = round(prediction[0], 2)

        if output < 0:
            return render_template('value.html', prediction_text="This car couldn't be sold")

        else:
            return render_template('value.html', prediction_text="The Resale value of the car is {}
lakhs".format(output))
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    else:
        return render_template('index.html')

if __name__ == "__main__":
    app.run(debug=True)
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