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from flask import Flask, render_template, request
import pandas as pd
import numpy as np
import pickle
import requests
# NOTE: you must manually set API_KEY below using information retrieved from your IBM Cloud
account.
API_KEY = "oUHg5RCJT5AVH-CqNzu1fyA067ZbL9NdbCOH3R0DdnIh"
token_response = requests.post('https://iam.cloud.ibm.com/identity/token', data={"apikey":
                                           API_KEY, "grant_type": 'urn:ibm:params:oauth:grant-
type:apikey'})
mltoken = token_response.json()["access_token"]
header = {'Content-Type': 'application/json',
     'Authorization': 'Bearer ' + mltoken}
app = Flask(_name_)
model = pickle.load(open("CarLinearRegressionModel.pkl", 'rb'))
car = pd.read csv("Cleaned Car.csv")
@app.route('/')
def index():
  car_models = sorted(car['car_models'].unique())
  company_name = sorted(car['company_name'].unique())
  year = sorted(car['year'].unique(), reverse=True)
  km_driven = sorted(car['year'].unique())
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fuel = sorted(car['fuel'].unique())
  seller_type = sorted(car['seller_type'].unique())
  transmission = sorted(car['transmission'].unique())
  owner = sorted(car['owner'].unique())
  return render_template('index.html', car_models=car_models, company_name=company_name,
year=year, km_driven=km_driven, fuel=fuel, seller_type=seller_type, transmission=transmission,
owner=owner)
@app.route('/predict', methods=['POST'])
def predict():
  company name = request.form.get('company name')
  car models = request.form.get('car models')
  year = int(request.form.get('year'))
  km_driven = int(request.form.get('kilo_driven'))
  fuel = request.form.get('fuel type')
  seller_type = request.form.get('seller_type')
  transmission = request.form.get('transmission')
  owner = request.form.get('owner')
  #t=[[car models,company name,year,km driven,fuel,seller type,transmission,owner]]
  # NOTE: manually define and pass the array(s) of values to be scored in the next line
  payload scoring = {"input data": [{"fields": ['car models', 'company name', 'year', 'km driven', 'fuel',
'seller_type',
                           'transmission', 'owner'], "values":[[car_models, company_name, year,
km_driven, fuel, seller_type, transmission, owner]]}]}
  response_scoring = requests.post('https://us-south.ml.cloud.ibm.com/ml/v4/deployments/fb824ca5-
dfcf-41e1-979f-4a731cd910b5/predictions?version=2022-11-18', json=payload scoring,
                    headers={'Authorization': 'Bearer ' + mltoken})
  prediction = response_scoring['predictions'][0]['values']
  return str(np.round(prediction[00], 2))
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if _name == "main_":
    app.run()
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