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

app = Flask(__name__)
model = pickle.load(open(r'C:\Water Analysis\wqi.pkl' , 'rb'))
@app.route('/',methods=['GET'])
def home():
    return render_template('index.html')

Standard_to = StandardScaler()
@app.route('/predict',methods =['POST'])
def predict():
   if request.method =='POST':
      #Model = CHAR(request.form['model'])
      Dissolved_Oxygen = float(request.form['DO'])#year the car is bought.
      Conductivity = float(request.form['Con'])
      Temperature = float(request.form['Temp'])
      pH = float(request.form['pH'])#how many car the owner has
      Biochemical_Oxygen_demand = float(request.form['DOB'])
      States = request.form['state']
      if(States == 'Andhra Pradesh'):
        Andhra_Pradesh = 1
        Andaman_and_Nicobar_Islands = 0
        Arunachal_Pradesh = 0
        Assam = 0
        Bihar = 0
        Chandigarh = 0
        Chhattisgarh = 0
        Dadar_and_Nagar_Haveli = 0
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    Daman_and_Diu = 0
    Delhi = 0
    Lakshadweep = 0
    Puducherry = 0
    Goa = 0
    Gujarat = 0
    Haryana = 0
    Himachal_Pradesh = 0
    Jammu_and_Kashmir = 0
    Jharkhand = 0
    Karnataka = 0
    Kerala = 0
    Madhya_Pradesh = 0
    Maharashtra = 0
    Manipur = 0
    Meghalaya = 0
    Mizoram = 0
    Nagaland = 0
    Odisha = 0
    Punjab = 0
    Rajasthan = 0
    Sikkim = 0
    Tamil_Nadu = 0
    Telangana = 0
    Tripura = 0
    Uttar_Pradesh = 0
    Uttarakhand = 0
    West_Bengal = 0

elif(States == 'Andaman_and_Nicobar_Islands'):
    Andhra_Pradesh = 0
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Andaman_and_Nicobar_Islands = 1

Arunachal_Pradesh = 0

Assam = 0

Bihar = 0

Chandigarh = 0

Chhattisgarh = 0

Dadar_and_Nagar_Haveli = 0

Daman_and_Diu = 0

Delhi = 0

Lakshadweep = 0

Puducherry = 0

Goa = 0

Gujarat = 0

Haryana = 0

Himachal_Pradesh = 0

Jammu_and_Kashmir = 0

Jharkhand = 0

Karnataka = 0

Kerala = 0

Madhya_Pradesh = 0

Maharashtra = 0

Manipur = 0

Meghalaya = 0

Mizoram = 0

Nagaland = 0

Odisha = 0

Punjab = 0

Rajasthan = 0

Sikkim = 0

Tamil_Nadu = 0

Telangana = 0

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    Tripura = 0
    Uttar_Pradesh = 0
    Uttarakhand = 0
    West_Bengal = 0

elif(States == 'Arunachal_Pradesh'):
    Andhra_Pradesh = 0
    Andaman_and_Nicobar_Islands = 0
    Arunachal_Pradesh = 1
    Assam = 0
    Bihar = 0
    Chandigarh = 0
    Chhattisgarh = 0
    Dadar_and_Nagar_Haveli = 0
    Daman_and_Diu = 0
    Delhi = 0
    Lakshadweep = 0
    Puducherry = 0
    Goa = 0
    Gujarat = 0
    Haryana = 0
    Himachal_Pradesh = 0
    Jammu_and_Kashmir = 0
    Jharkhand = 0
    Karnataka = 0
    Kerala = 0
    Madhya_Pradesh = 0
    Maharashtra = 0
    Manipur = 0
    Meghalaya = 0
    Mizoram = 0
```

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        Nagaland = 0
        Odisha = 0
        Punjab = 0
        Rajasthan = 0
        Sikkim = 0
        Tamil_Nadu = 0
        Telangana = 0
        Tripura = 0
        Uttar_Pradesh = 0
        Uttarakhand = 0
        West_Bengal = 0

    prediction = model.predict([[Biochemical_Oxygen_demand
,Dissolved_Oxygen,Conductivity,Temperature,pH,States_Andhra_Pradesh
,States_Andaman_and_Nicobar_Islands,States_Arunachal_Pradesh]])
    output = round(prediction[0],2)

    if output<0:
        return render_template('index.html', prediction_text='Sorry! You cannot drink this water')
    else:
        return render_template('index.html', prediction_text='You can drink this
water{}'.format(output))
  else:
    return render_template('index.html')
if __name__ == '__main__':
  app.run(debug=True)
```