from flask import Flask, render\_template, request

import pandas as pd

from sklearn.preprocessing import StandardScaler

import pickle

import os

from flask import Flask, render\_template, request, redirect, url\_for

app = Flask(\_\_name\_\_, static\_url\_path='/static', static\_folder='static')

model\_path = os.path.join("C:\\Users\\Thinesh\heart\_model.pkl")

scaler\_path = os.path.join("C:\\Users\\Thinesh\\scaler.pkl")

# Load the trained model and scaler

model = pickle.load(open(model\_path, 'rb'))

scaler = pickle.load(open(scaler\_path, 'rb'))

@app.route('/', methods=['GET', 'POST'])

def index():

if request.method == 'POST':

age = float(request.form['age'])

sex = int(request.form['sex'])

cp = int(request.form['cp'])

trestbps = float(request.form['trestbps'])

chol = float(request.form['chol'])

fbs = int(request.form['fbs'])

restecg = int(request.form['restecg'])

thalach = float(request.form['thalach'])

exang = int(request.form['exang'])

oldpeak = float(request.form['oldpeak'])

slope = int(request.form['slope'])

ca = int(request.form['ca'])

thal = int(request.form['thal'])

# Create a DataFrame from user input

user\_data = pd.DataFrame([[age, sex, cp, trestbps, chol, fbs, restecg, thalach,

exang, oldpeak, slope, ca, thal]],

columns=['age', 'sex', 'cp', 'trestbps', 'chol', 'fbs', 'restecg', 'thalach',

'exang', 'oldpeak', 'slope', 'ca', 'thal'])

# Scale the user data

user\_data\_scaled = scaler.transform(user\_data)

# Predict using the trained model

prediction = model.predict(user\_data\_scaled)

if prediction[0] == 1:

result = "The model predicts that you have a risk of heart disease."

else:

result = "The model predicts that you do not have a risk of heart disease."

return render\_template('index.html', result=result)

return render\_template('index.html', result=None)

if \_\_name\_\_ == '\_\_main\_\_':

app.run(debug=True) # Change debug=False for production us