## **Student\_Marks\_Predictor**

```
# -*- coding: utf-8 -*-
import numpy as np
import pandas as pd
from flask import Flask, request, render_template
import joblib
app = Flask(__name__)
model = joblib.load(r'C:\Users\samua\Python pickle\student_mark_predictor.pkl')
# Use a global DataFrame for storing predictions
df = pd.DataFrame(columns=['Study Hours', 'Predicted Output'])
@app.route('/')
def home():
  return render_template('index.html')
@app.route('/predict', methods=['POST'])
def predict():
  global df
  try:
    input_features = [float(x) for x in request.form.values()]
  except ValueError:
    return render_template('index.html', prediction_text='Please enter numeric values
only.')
```

```
features value = np.array(input features).reshape(1, -1)
  # Validate study hours
 if input_features[0] < 0 or input_features[0] > 24:
    return render_template(
      'index.html',
      prediction_text='Please enter valid hours between 1 to 24 if you live on the Earth'
    )
  # Predict using the loaded model
  output = model.predict(features_value)
  if isinstance(output, np.ndarray):
    output = output.flatten()[0]
  output = round(float(output), 2)
 # Store inputs and prediction in the DataFrame
  new_row = pd.DataFrame({'Study Hours': [input_features[0]], 'Predicted Output':
[output]})
  df = pd.concat([df, new_row], ignore_index=True)
 print(df)
  df.to_csv('smp_data_from_app.csv', index=False)
 return render_template(
    'index.html',
    prediction_text=f'You will get [{output}%] marks when you study
[{int(input_features[0])}] hours per day.'
 )
```

```
if __name__ == "__main__":
    app.run(host='127.0.0.1', port=5000, debug=True)
```