

FileEditSelectionViewGoRunTerminalHelp

app.py - Visual Studio Code

app.py

C:\> Users > Sai Aravindh > Downloads > IISPS-INT-182-Car-Performance-Prediction-master (1) > IISPS-INT-182-Car-Performance-Prediction-master > Performance Prediction > app.py > ...

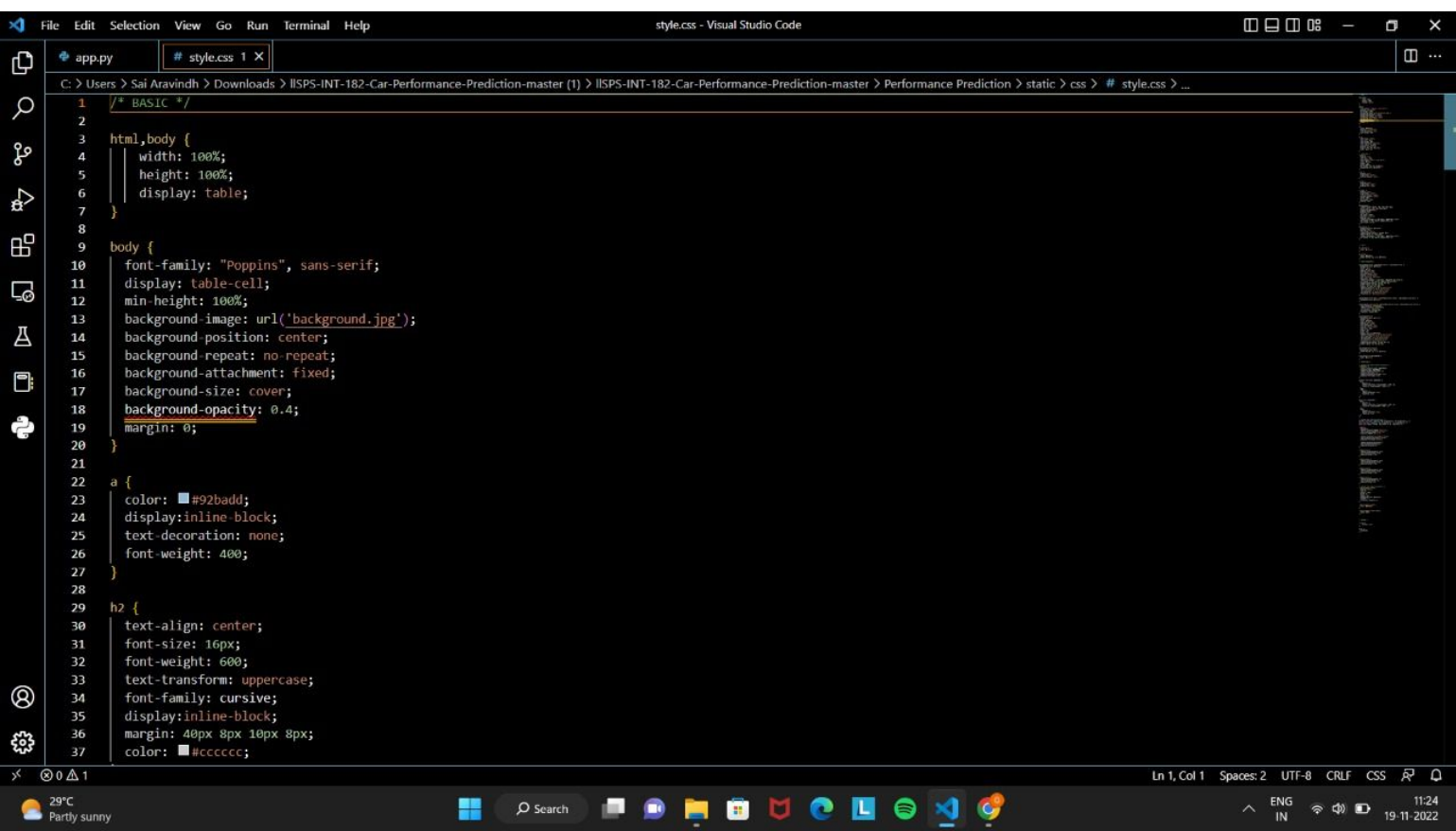
```
1 import numpy as np
2 from flask import Flask, request, jsonify, render_template
3 import pickle
4 #from joblib import load
5 app = Flask(__name__)
6 model = pickle.load(open('decision_model.pkl', 'rb'))
7
8 @app.route('/')
9 def home():
10     return render_template('index.html')
11
12 @app.route('/y_predict',methods=['POST'])
13 def y_predict():
14     """
15     For rendering results on HTML GUI
16     """
17     x_test = [[int(x) for x in request.form.values()]]
18     print(x_test)
19     #sc = load('scalar.save')
20     prediction = model.predict(x_test)
21     print(prediction)
22     output=prediction[0]
23     if(output<=9):
24         | pred="worst performance with mileage " + str(prediction[0]) + ". Carry extra fuel"
25     if(output>9 and output<=17.5):
26         | pred="Low performance with mileage " +str(prediction[0]) + ". Don't go to long distance"
27     if(output>17.5 and output<=29):
28         | pred="Medium performance with mileage " +str(prediction[0]) + ". Go for a ride nearby."
29     if(output>29 and output<=46):
30         | pred="High performance with mileage " +str(prediction[0]) + ". Go for a healthy ride"
31     if(output>46):
32         | pred="Very high performance with mileage " +str(prediction[0])+". You can plan for a Tour"
33
34     return render_template('index.html', prediction_text='{}'.format(pred))
35
36
37 @app.route('/predict_api',methods=['POST'])
```

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF Python 3.10.8 64-bit (microsoft store)

29°C
Partly sunny

Search

11:19
19-11-2022



```
File Edit Selection View Go Run Terminal Help index.html - Visual Studio Code
app.py index.html X # style.css 1
C:\Users\Sai Aravindh\Downloads\IISPS-INT-182-Car-Performance-Prediction-master (1) > IISPS-INT-182-Car-Performance-Prediction-master > Performance Prediction > templates > index.html
1 <link href="//maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css" rel="stylesheet" id="bootstrap-css">
2 <link href="https://fonts.googleapis.com/css2?family=Girassol&display=swap" rel="stylesheet">
3 <script src="//maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"></script>
4 <script src="//cdnjs.cloudflare.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>
5 <link rel="stylesheet" href="{{ url_for('static', filename='css/style.css') }}">
6 <link rel="shortcut icon" href="{{ url_for('static', filename='css/favicon.ico') }}">
7 <div class="navbar">
8     <section class="title">
9         <h1 style="font-family: 'Girassol', cursive ;">PREDICT YOUR CAR'S PERFORMANCE</h1>
10         <lottie-player
11             src="https://assets9.lottiefiles.com/datafiles/iN70cWnNoqje6iXTI7dWzKxvLIbfeCGTmvXmEm1h/data.json"
12             background="transparent"
13             speed="1"
14             style="width:300px; height: 300px;"
15             loop
16             autoplay
17         ></lottie-player>
18     </section>
19 </div>
20
21 <div class="wrapper fadeInDown">
22     <div id="formContent">
23         <!-- Tabs Titles -->
24         <section class="date">
25             <!-- Icon -->
26             <div class="fadeIn first">
27                 <script src="https://unpkg.com/@lottiefiles/lottie-player@latest/dist/lottie-player.js"></script>
28                 <lottie-player
29                     src="https://assets6.lottiefiles.com/packages/lf20_TkGfat.json"
30                     background="transparent"
31                     speed="1"
32                     loop
33                     style="width: 100px; height: 100px;"
34                     autoplay
35                 ></lottie-player>
36             </div>
37             <div class="fadeInDown">
```

Visual Studio Code interface showing a Python Flask application for performance prediction.

EXPLORER

- PERFORMANCE PREDICTION
 - static\css
 - background.jpg
 - favicon.ico
 - style.css
 - templates
 - app.py
 - decision_model.pkl

app.py

```
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2 from flask import Flask, request, jsonify, render_template
3 import pickle
4 #from joblib import load
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6 model = pickle.load(open('decision_model.pkl', 'rb'))
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19     prediction = model.predict(x_test)
20     print(prediction)
21     output=prediction[0]
22     if(output<=9):
23         | pred="Worst performance with mileage " + str(prediction[0]) + ". Carry extra fuel"
24     if(output>9 and output<=17.5):
```

TERMINAL

```
warnings.warn(
  * Serving Flask app 'app'
  * Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
* Restarting with stat
C:\Users\Sai Aravindh\AppData\Local\Packages\PythonSoftwareFoundation.Python.3.10_qbz5n2kfra8p0\LocalCache\local-packages\Python310\site-packages\sk
learn\base.py:329: UserWarning: Trying to unpickle estimator DecisionTreeRegressor from version 0.22.1 when using version 1.1.3. This might lead to
breaking code or invalid results. Use at your own risk. For more info please refer to:
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
warnings.warn(
  * Debugger is active!
```

OUTLINE

- OUTLINE
- TIMELINE

Python

- Python
- Python
- Python
- Python
- Python
- Python
- Python

Ln 10, Col 41 Spaces: 4 UTF-8 CRLF Python 3.10.8 64-bit (microsoft store) 11:29 19-11-2022

PREDICT YOUR CAR'S PERFORMANCE

No.of cylinders (count)

Displacement (in miles)

Horsepower (per sec)

Weight (in pounds)

Acceleration

Model Year (YY)

Origin

PREDICT

Low performance with mileage 15.0. Don't go to long distance