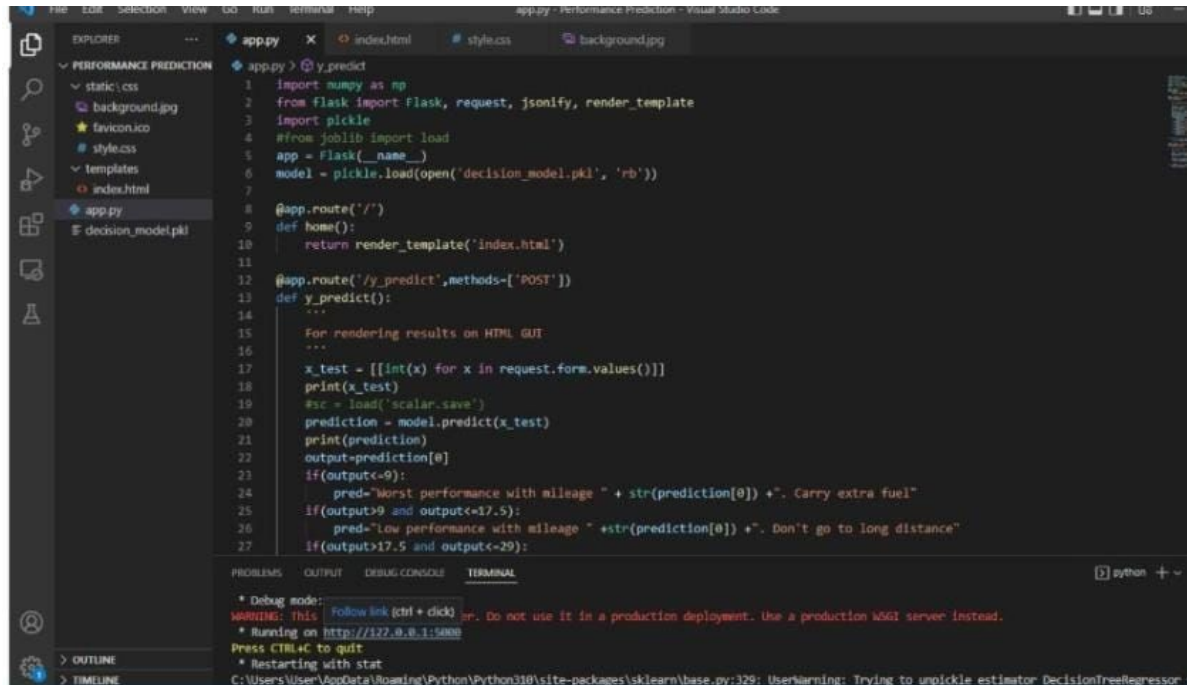


# PROJECT OUTPUT



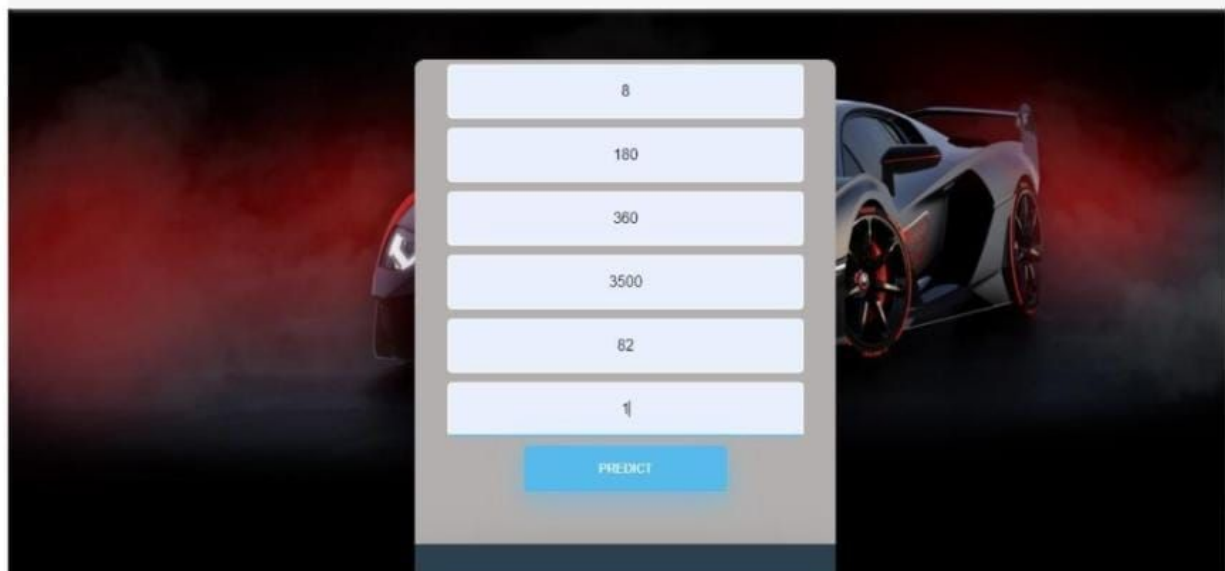
The screenshot shows a Visual Studio Code editor with a Python Flask application. The Explorer pane on the left shows the project structure: `PERFORMANCE PREDICTION` (a folder), `static` (a folder), `background.jpg`, `favicon.ico`, `style.css`, `templates` (a folder), `index.html`, `app.py`, and `decision_model.pkl`. The main editor shows the `app.py` file with the following code:

```
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<0):
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):
```

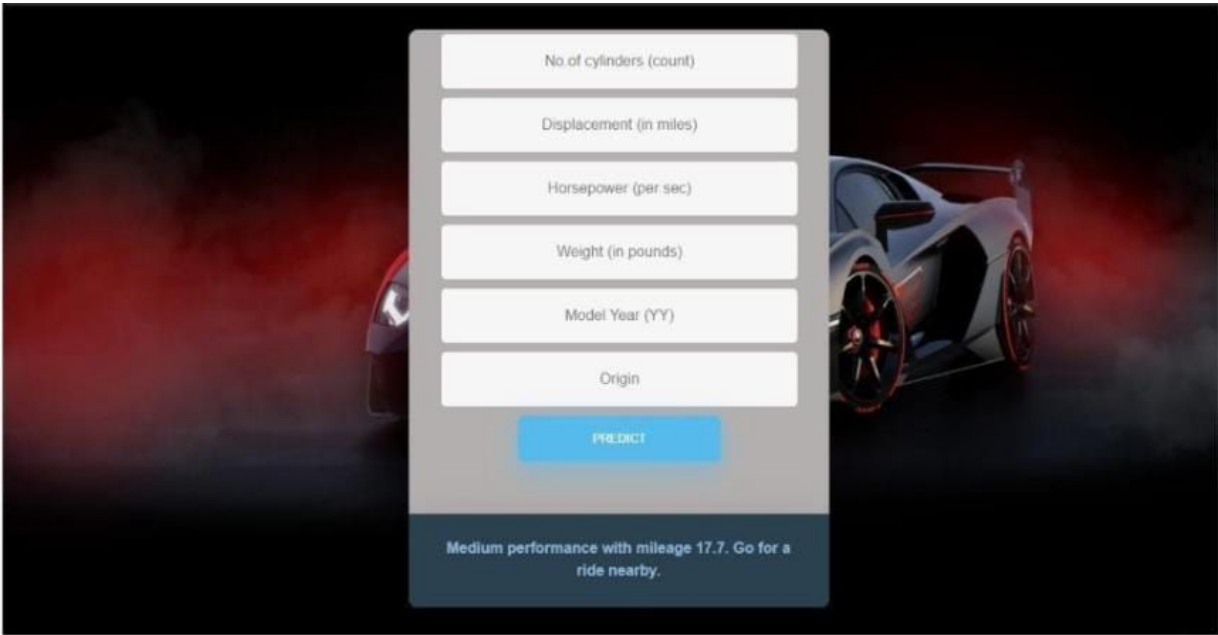
The bottom of the editor shows the TERMINAL pane with the following output:

```
* Debug mode: Follow link (ctrl + click) or, 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\User\AppData\Roaming\Python\Python310\site-packages\sklearn\base.py:329: UserWarning: Trying to unpickle estimator DecisionTreeRegressor
```

## PREDICT YOUR CAR'S PERFORMANCE



The image shows a web application interface for predicting car performance. The title is "PREDICT YOUR CAR'S PERFORMANCE". The interface features a central form with six input fields, each containing a numerical value: 8, 180, 360, 3500, 82, and 1. Below these fields is a blue button labeled "PREDICT". The background of the interface is a dark, stylized image of a car.



No of cylinders (count)

Displacement (in miles)

Horsepower (per sec)

Weight (in pounds)

Model Year (YY)

Origin

PREDICT

Medium performance with mileage 17.7. Go for a ride nearby.