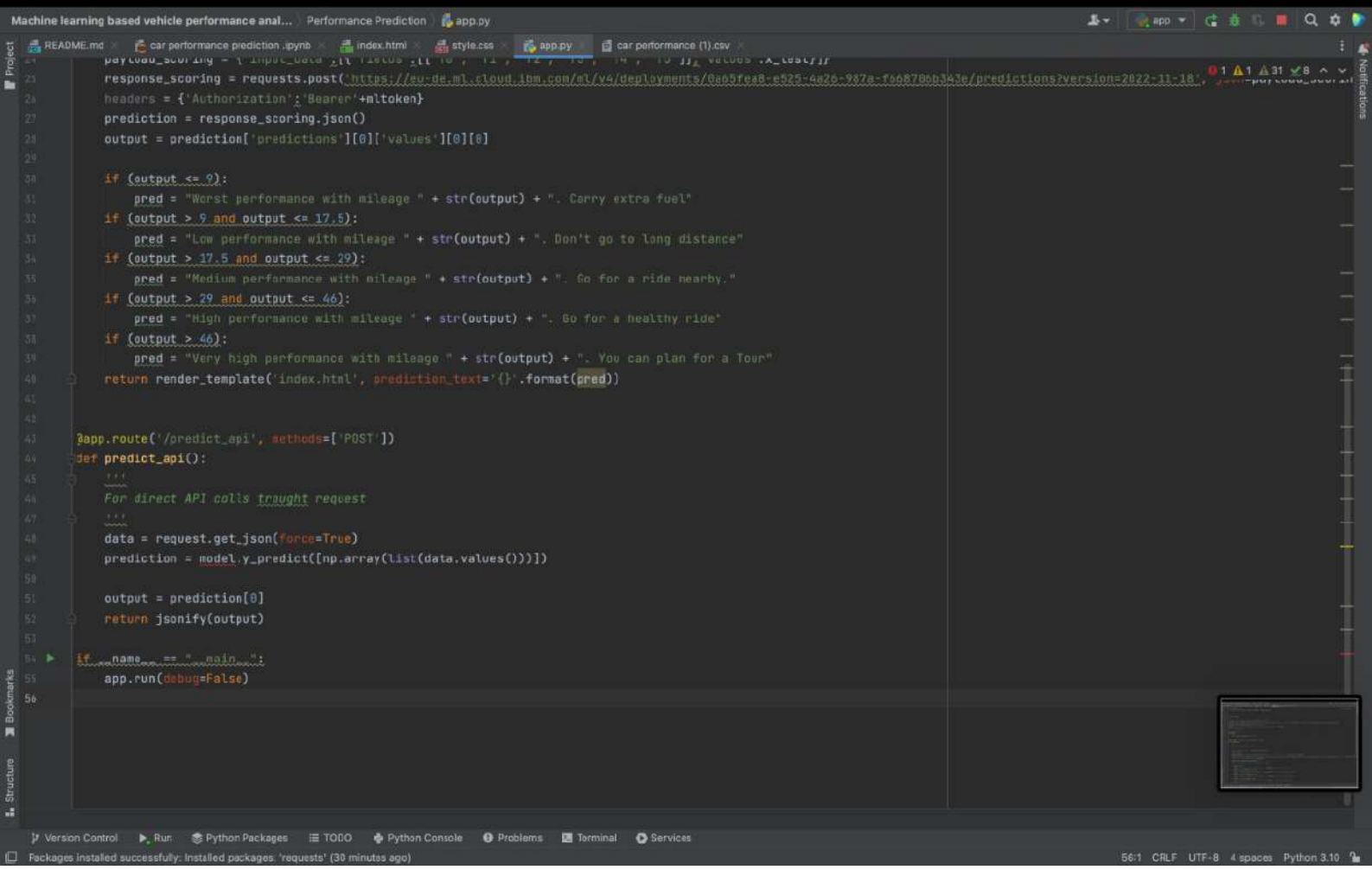
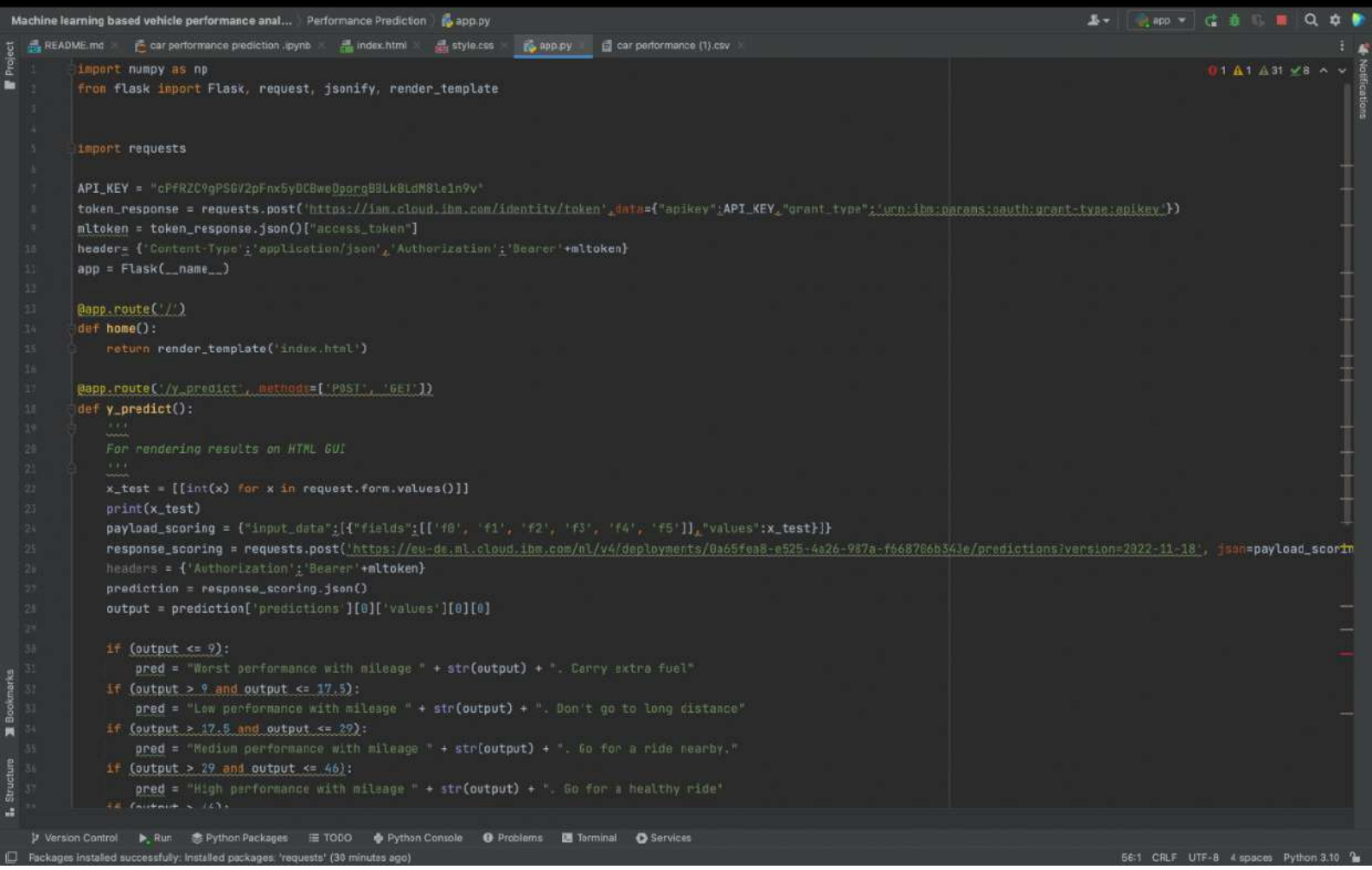

Machine learning based vehicle performance anal...
Performance Prediction
app.py
README.md
car performance prediction .ipynb
index.html
style.css
app.py
car performance (1).csv
response_scoring = requests.post('https://eu-de.ml.cloud.ibm.com/ml/v4/deployments/0a65fea8-e525-4a20-987a-f668706b342e/predictions?version=2022-11-18',
headers = {'Authorization':'Bearer'+mltoken}
prediction = response_scoring.json()
output = prediction['predictions'][0]['values'][0][0]
if (output <= 9):
pred = "Worst performance with mileage " + str(output) + ". Carry extra fuel"
if (output > 9 and output <= 17.5):
pred = "Low performance with mileage " + str(output) + ". Don't go to long distance"
if (output > 17.5 and output <= 29):
pred = "Medium performance with mileage " + str(output) + ". Go for a ride nearby."
if (output > 29 and output <= 46):
pred = "High performance with mileage " + str(output) + ". Go for a healthy ride"
if (output > 46):
pred = "Very high performance with mileage " + str(output) + ". You can plan for a Tour"
return render_template('index.html', prediction_text='{}'.format(pred))
@app.route('/predict_api', methods=['POST'])
def predict_api():
'''
For direct API calls trought request
'''
data = request.get_json(force=True)
prediction = model.y_predict([np.array(list(data.values()))])
output = prediction[0]
return jsonify(output)
if __name__ == "__main__":
app.run(debug=False)
Version Control
Run
Python Packages
TODO
Python Console
Problems
Terminal
Services
Packages installed successfully: Installed packages: 'requests' (30 minutes ago)
56:1
CRLF
UTF-8
4 spaces
Python 3.10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import numpy as np
from flask import Flask, request, jsonify, render_template
import requests
API_KEY = "cPfRZC9gPSGV2pFnx5yDCBweQporgB8LkBLdM8le1n9v"
token_response = requests.post('https://iam.cloud.ibm.com/identity/token', data={"apikey":API_KEY, "grant_type":'urn:ibm:params:oauth:grant-type:apikey'})
mltoken = token_response.json()["access_token"]
header= {'Content-Type':'application/json','Authorization':'Bearer'+mltoken}
app = Flask(__name__)
@app.route('/')
def home():
return render_template('index.html')
@app.route('/y_predict', methods=['POST', 'GET'])
def y_predict():
'''
For rendering results on HTML GUI
'''
x_test = [[int(x) for x in request.form.values()]]
print(x_test)
payload_scoring = {"input_data":[{"fields":[['f0', 'f1', 'f2', 'f3', 'f4', 'f5']],"values":x_test}]}
response_scoring = requests.post('https://eu-de.ml.cloud.ibm.com/ml/v4/deployments/0a65fea8-e525-4a26-987a-f668786b34de/predictions?version=2022-11-18', json=payload_scorin
headers = {'Authorization':'Bearer'+mltoken}
prediction = response_scoring.json()
output = prediction['predictions'][0]['values'][0][0]
if (output <= 9):
pred = "Worst performance with mileage " + str(output) + ". Carry extra fuel"
if (output > 9 and output <= 17.5):
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if (output > 17.5 and output <= 29):
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if (output > 29 and output <= 46):
pred = "High performance with mileage " + str(output) + ". Go for a healthy ride"
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