Nuri Tas

LISUM12

August 28th, 2022

https://github.com/Nuri-Tas/VC/tree/main/Flask

```
🚜 test.py 🗴 🚜 C:\...\add.py 🗴 🥻 response.json 🗴 🚜 C:\...\flask_deployment.py 🗴 🚜 fl
       import pandas as pd
       from sklearn.model_selection import train_test_split
       from sklearn.linear_model import LinearRegression
       import pickle
      dataset = pd.read_csv('C:/Users/Lenovo/Desktop/TSA_Kaggle/tunnel.csv')
      dataset['lag'] = dataset.NumVehicles.shift(1)
      y = dataset.loc[1:, ['NumVehicles']].values
      regressor = LinearRegression()
      regressor.fit(X_train, y_train)
      y_pred = regressor.predict(X_test)
      pickle.dump(regressor, open('model.pkl', 'wb'))
      #_Loading model to compare the results
PS C:\Users\Lenovo\repos_dg\VC> python flask_deployment.py
 * Detected change in 'C:\\Users\\Lenovo\\repos_dg\\VC\\flask_deployment.py', reloading
 * Detected change in 'C:\\Users\\Lenovo\\repos_dg\\VC\\flask_deployment.py', reloading
 * Restarting with watchdog (windowsapi)
[[46179.1033627]]
 * Debugger is active!
 * Debugger PIN: 852-363-601
 * Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```

```
from flask import Flask, request, jsonify
import pickle
app = Flask(__name__)
model = pickle.load(open('model.pkl', 'rb'))
@app.route('/api', methods=['POST'])
def predict():
   data = request.get_json(force=True)
   prediction = model.predict([[np.array(data['exp'])]])
   # Take the first value of prediction
   output = prediction[0]
   return jsonify(output)
if __name__ == '__main__':
    app.run(port=5000, debug=True)
 import requests
 url = 'http://localhost:5000/api'
 r = requests.post(url_json={'exp':1.8,})
 print(r.json())
```