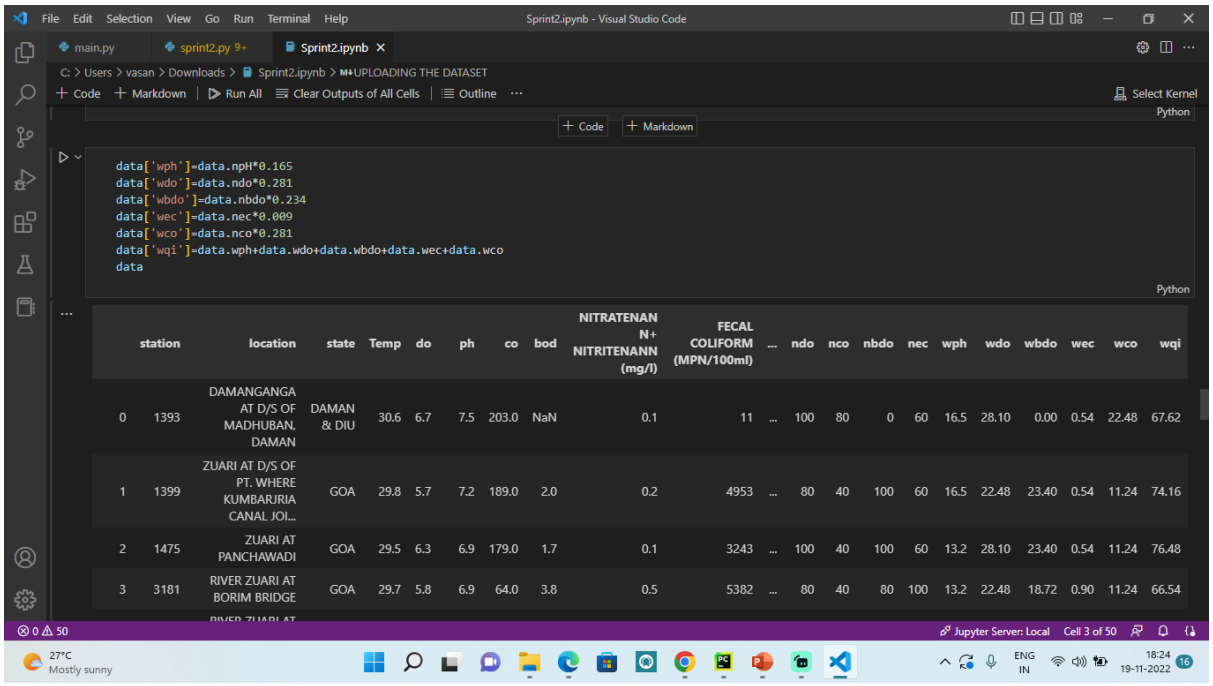
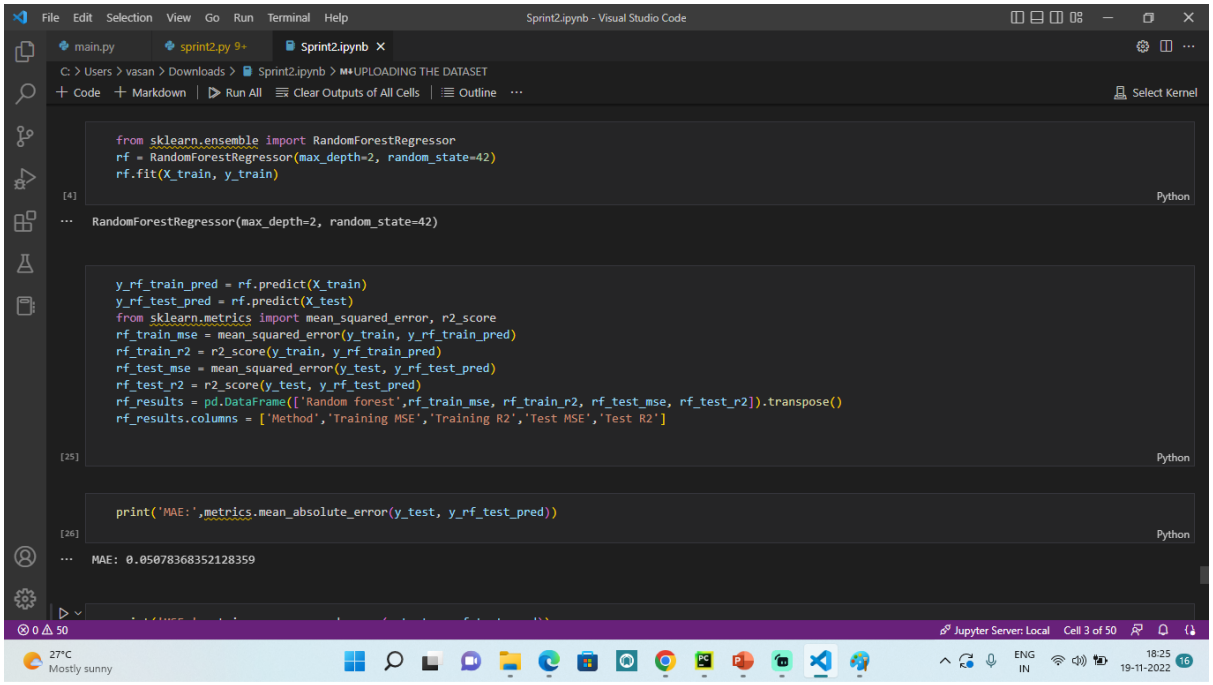
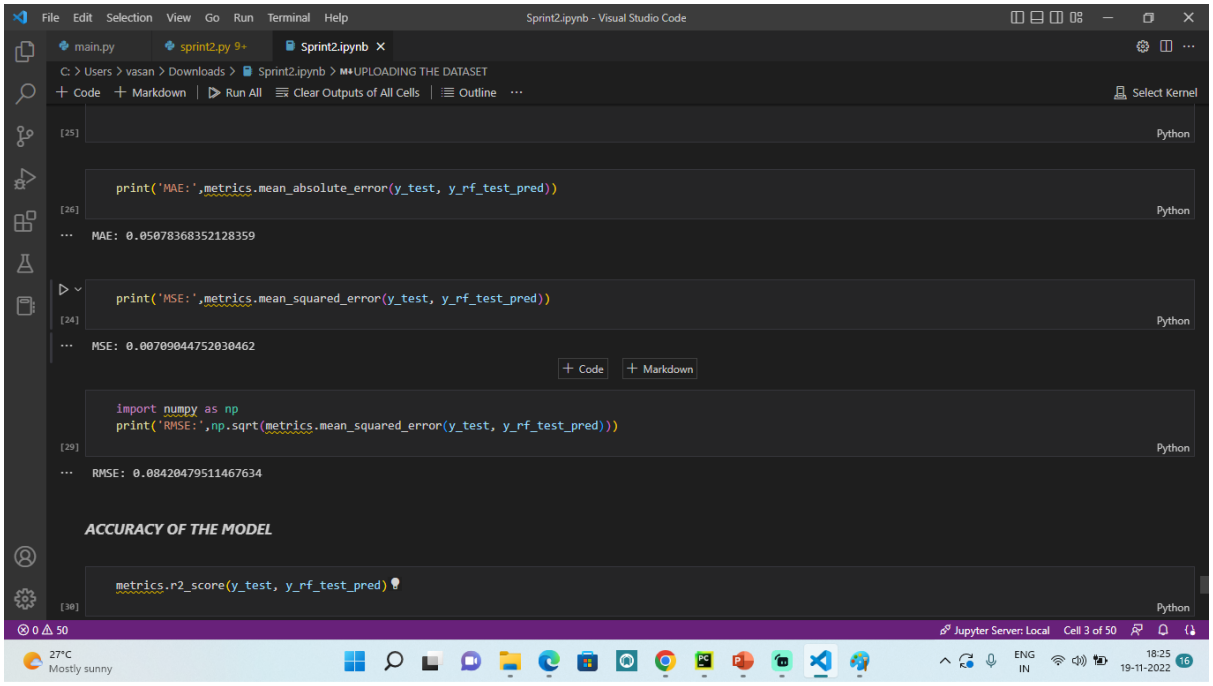
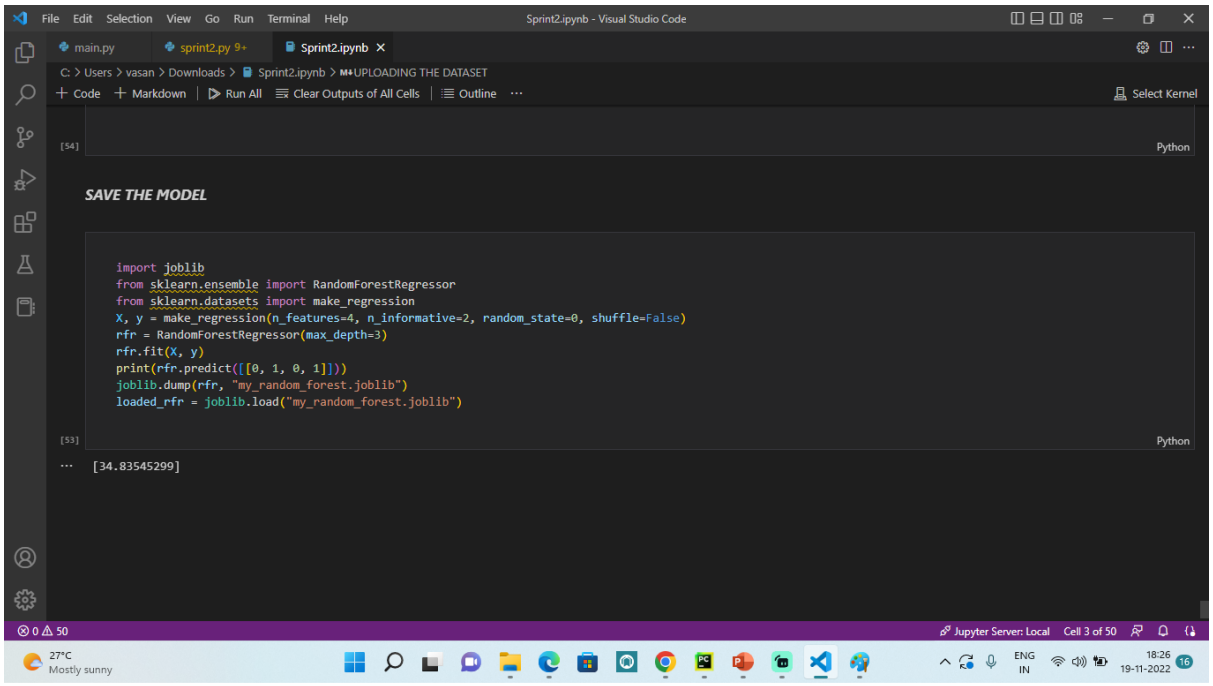
INTEGRATE FLASK WITH SCORING END POINT






File Edit Selection View Go Run Terminal Help
Sprint2.ipynb - Visual Studio Code
main.py
sprint2.py 9+
Sprint2.ipynb
C: > Users > vasan > Downloads > Sprint2.ipynb > UPLOADING THE DATASET
Code
Markdown
Run All
Clear Outputs of All Cells
Outline
Select Kernel
[25]
Python
print('MAE:',metrics.mean_absolute_error(y_test, y_rf_test_pred))
[26]
Python
MAE: 0.05078368352128359
print('MSE:',metrics.mean_squared_error(y_test, y_rf_test_pred))
[24]
Python
MSE: 0.007090447520304 62
Code
Markdown
import numpy as np
print('RMSE:',np.sqrt(metrics.mean_squared_error(y_test, y_rf_test_pred)))
[29]
Python
RMSE: 0.08420479511467634
ACCURACY OF THE MODEL
metrics.r2_score(y_test, y_rf_test_pred)
[30]
Python
0 50
Jupyter Server: Local
Cell 3 of 50
27°C
Mostly sunny
ENG
IN
18:25
19-11-2022


File Edit Selection View Go Run Terminal Help
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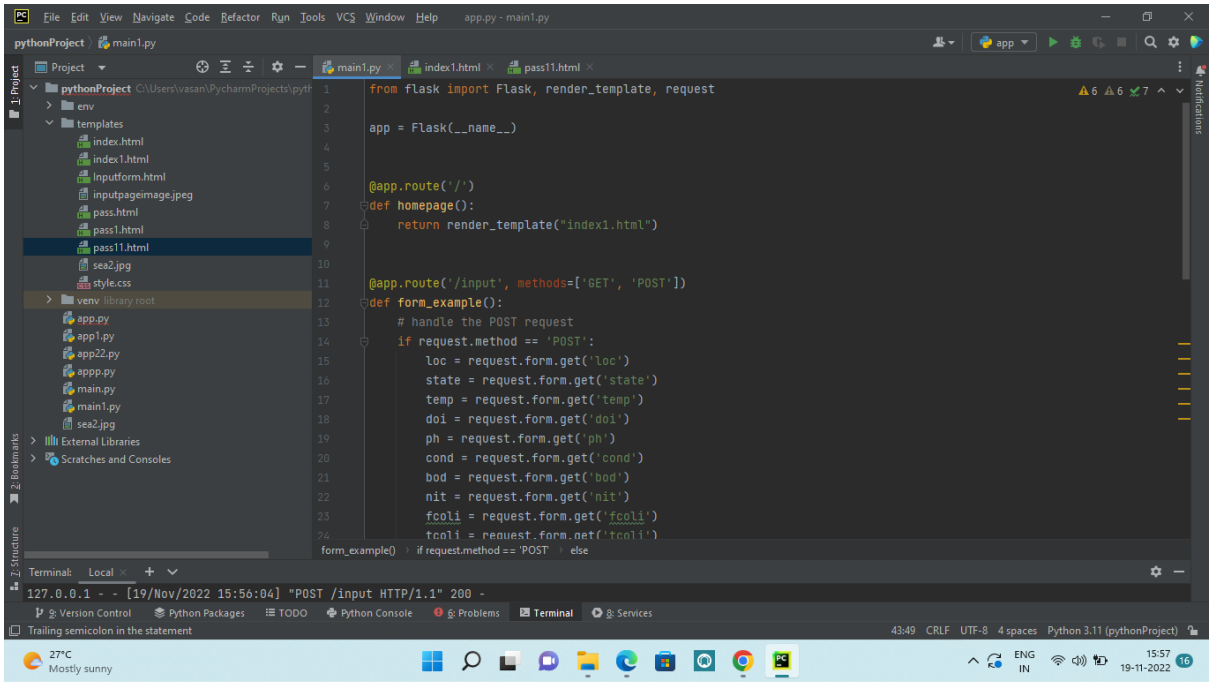
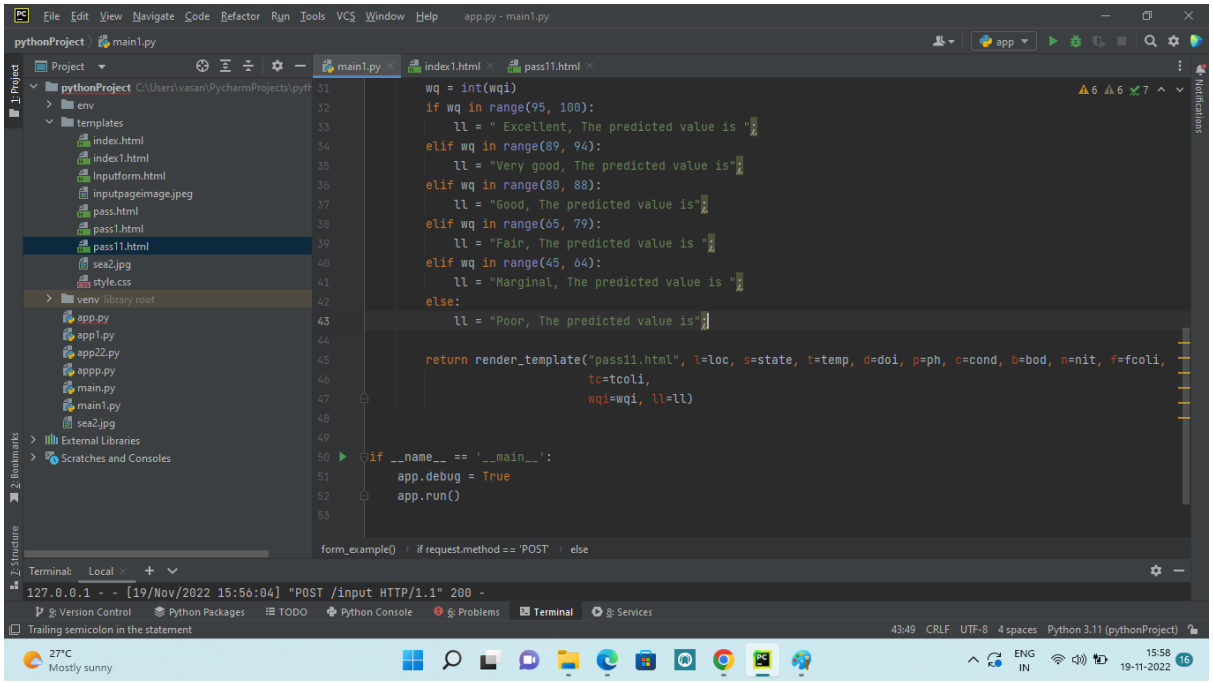
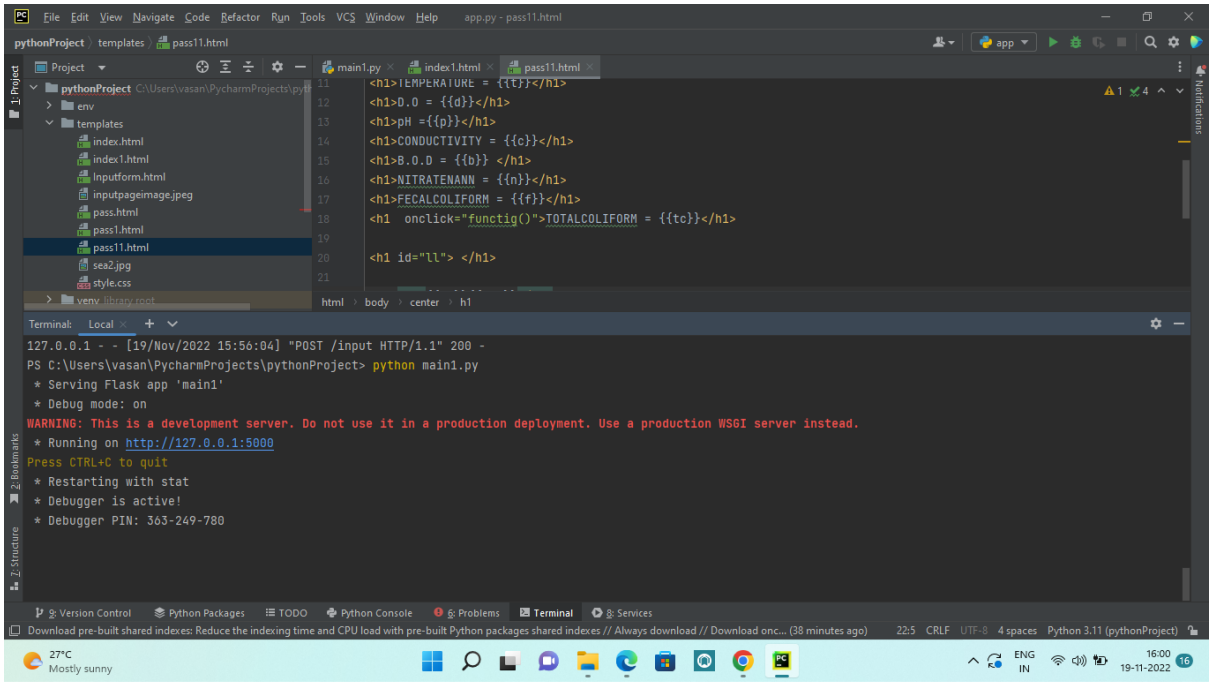
main.py
sprint2.py 9+
Sprint2.ipynb
C: > Users > vasan > Downloads > Sprint2.ipynb > UPLOADING THE DATASET
Code
Markdown
Run All
Clear Outputs of All Cells
Outline
Select Kernel
[54]
Python
SAVE THE MODEL
import joblib
from sklearn.ensemble import RandomForestRegressor
from sklearn.datasets import make_regression
X, y = make_regression(n_features=4, n_informative=2, random_state=0, shuffle=False)
rfr = RandomForestRegressor(max_depth=3)
rfr.fit(X, y)
print(rfr.predict([[0, 1, 0, 1]]))
joblib.dump(rfr, "my_random_forest.joblib")
loaded_rfr = joblib.load("my_random_forest.joblib")
[53]
Python
[34.83545299]
0 50
Jupyter Server: Local
Cell 3 of 50
27°C
Mostly sunny
ENG
IN
18:26
19-11-2022


File Edit View Navigate Code Refactor Run Tools VCS Window Help app.py - main1.py
pythonProject main1.py
app
Project
main1.py
index1.html
pass11.html
pythonProject C:\Users\vasan\PycharmProjects\pyth
env
templates
index.html
index1.html
Inputform.html
inputpageimage.jpeg
pass.html
pass1.html
pass11.html
sea2.jpg
style.css
venv library root
app.py
app1.py
app22.py
appp.py
main.py
main1.py
sea2.jpg
External Libraries
Scratches and Consoles
from flask import Flask, render_template, request
app = Flask(__name__)
@app.route('/')
def homepage():
return render_template("index1.html")
@app.route('/input', methods=['GET', 'POST'])
def form_example():
# handle the POST request
if request.method == 'POST':
loc = request.form.get('loc')
state = request.form.get('state')
temp = request.form.get('temp')
doi = request.form.get('doi')
ph = request.form.get('ph')
cond = request.form.get('cond')
bod = request.form.get('bod')
nit = request.form.get('nit')
fcoli = request.form.get('fcoli')
tcoli = request.form.get('tcoli')
form_example() if request.method == 'POST' else
Terminal: Local
127.0.0.1 - - [19/Nov/2022 15:56:04] "POST /input HTTP/1.1" 200 -
Version Control Python Packages TODO Python Console 6: Problems Terminal 8: Services
Trailing semicolon in the statement
43:49 CRLF UTF-8 4 spaces Python 3.11 (pythonProject)
27°C
Mostly sunny
ENG
IN
15:57
19-11-2022


File Edit View Navigate Code Refactor Run Tools VCS Window Help app.py - main1.py
pythonProject main1.py
app
wq = int(wqi)
if wq in range(95, 100):
ll = " Excellent, The predicted value is ";
elif wq in range(89, 94):
ll = "Very good, The predicted value is";
elif wq in range(80, 88):
ll = "Good, The predicted value is";
elif wq in range(65, 79):
ll = "Fair, The predicted value is ";
elif wq in range(45, 64):
ll = "Marginal, The predicted value is ";
else:
ll = "Poor, The predicted value is";
return render_template("pass11.html", l=loc, s=state, t=temp, d=doi, p=ph, c=cond, b=bod, n=nit, f=fcoli,
tc=tcoli,
wqi=wqi, ll=ll)
if __name__ == '__main__':
app.debug = True
app.run()
form_example() if request.method == 'POST' else
Terminal: Local
127.0.0.1 - - [19/Nov/2022 15:56:04] "POST /input HTTP/1.1" 200 -
Version Control Python Packages TODO Python Console 6: Problems Terminal 8: Services
Trailing semicolon in the statement
43:49 CRLF UTF-8 4 spaces Python 3.11 (pythonProject)
27°C
Mostly sunny
ENG
IN
15:58
19-11-2022

S


File Edit View Navigate Code Refactor Run Tools VCS Window Help app.py - pass11.html
pythonProject templates pass11.html
app
Project
pythonProject C:\Users\vasan\PycharmProjects\pyth
env
templates
index.html
index1.html
Inputform.html
inputpageimage.jpeg
pass.html
pass1.html
pass11.html
sea2.jpg
style.css
venv library root
main1.py
index1.html
pass11.html
<h1>TEMPERATURE = {{t}}</h1>
<h1>D.O = {{d}}</h1>
<h1>pH ={{p}}</h1>
<h1>CONDUCTIVITY = {{c}}</h1>
<h1>B.O.D = {{b}} </h1>
<h1>NITRATENANN = {{n}}</h1>
<h1>FECALCOLIFORM = {{f}}</h1>
<h1 onclick="functig()">TOTALCOLIFORM = {{tc}}</h1>
<h1 id="ll"> </h1>
html body center h1
Terminal: Local
127.0.0.1 - - [19/Nov/2022 15:56:04] "POST /input HTTP/1.1" 200 -
PS C:\Users\vasan\PycharmProjects\pythonProject> python main1.py
* Serving Flask app 'main1'
* 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
* Debugger is active!
* Debugger PIN: 363-249-780
Version Control
Python Packages
TODO
Python Console
Problems
Terminal
Services
Download pre-built shared indexes: Reduce the indexing time and CPU load with pre-built Python packages shared indexes // Always download // Download onc... (38 minutes ago)
22:5 CRLF UTF-8 4 spaces Python 3.11 (pythonProject)
27°C
Mostly sunny
ENG
IN
16:00
19-11-2022