

Hal yang perlu diinstall

Python versi 3.12

<https://www.python.org/downloads/>

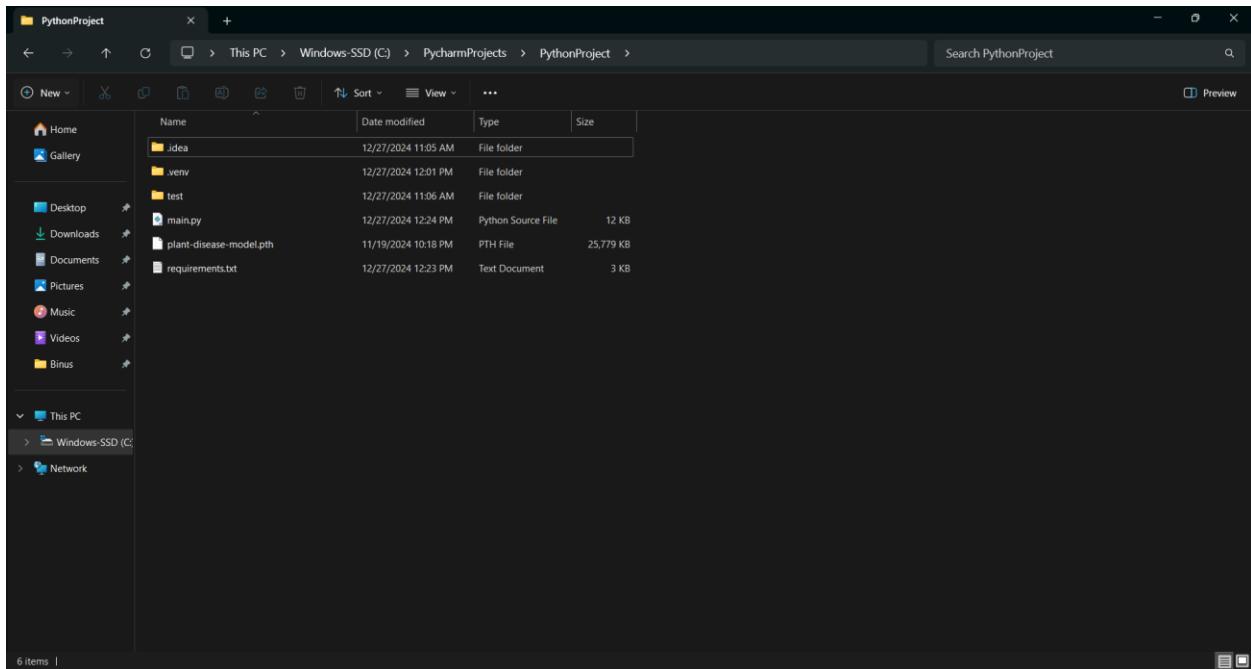
Visual studio code

<https://code.visualstudio.com/>

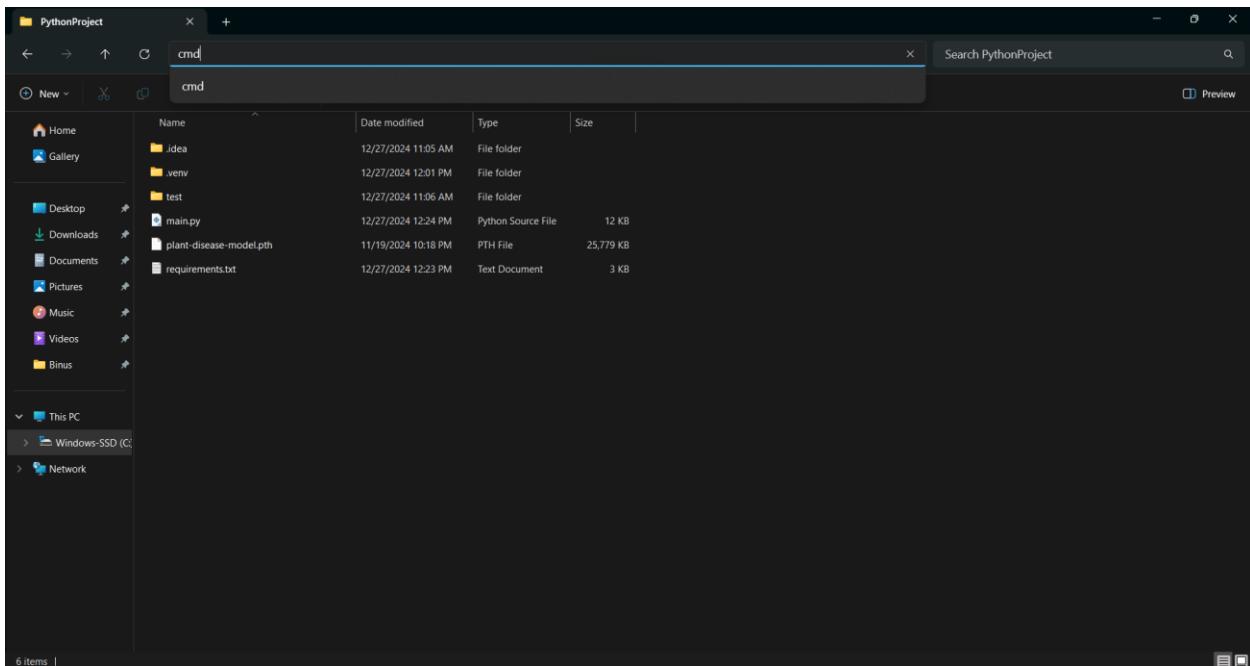
python vscode extension

cara menjalankan:

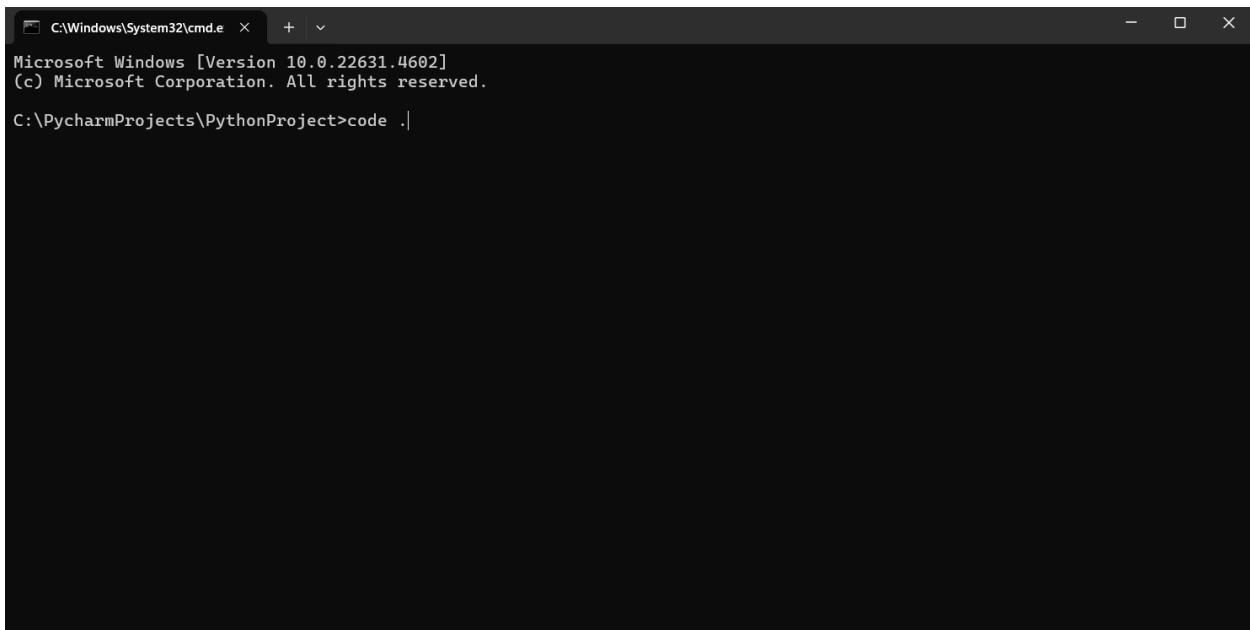
pertama ke folder PythonProject



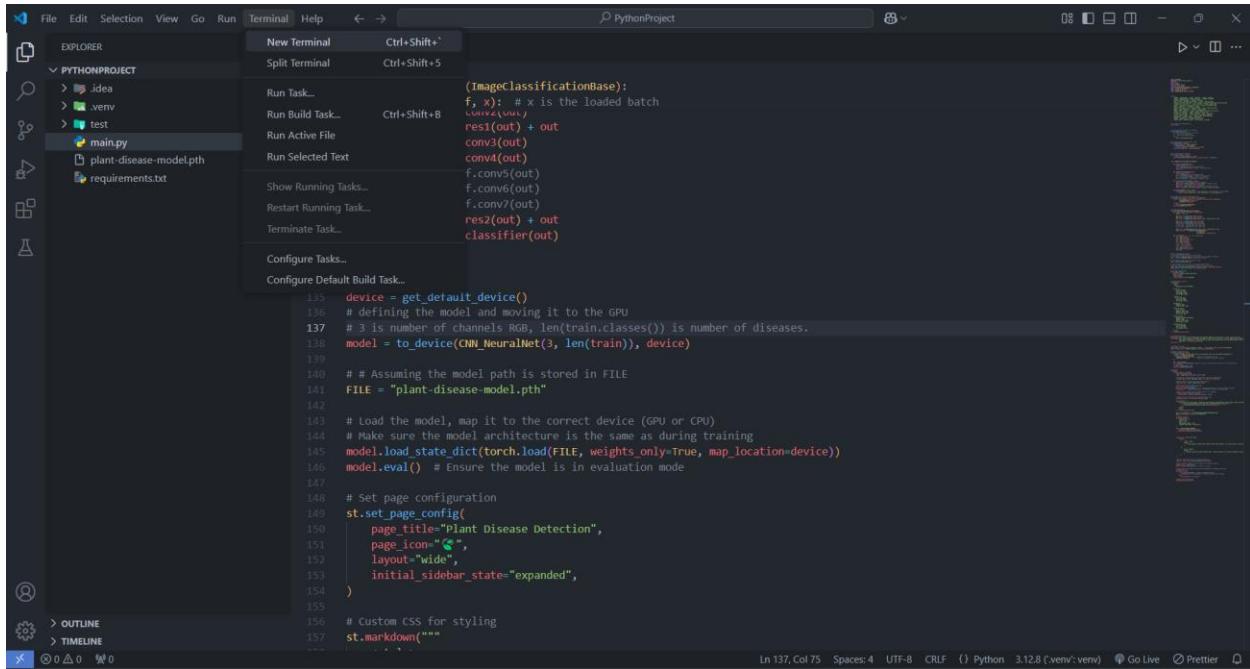
Ke address bar dan buka cmd



Buka vscode



Buka terminal baru



The screenshot shows the PyCharm IDE interface. The terminal tab is active, displaying code related to a neural network model. A code completion dropdown menu is open over the line:

```
(ImageClassificationBase):
    f, x); # x is the loaded batch
    conv1(out)
    rest(out) + out
    conv3(out)
    conv4(out)
    f.conv5(out)
    f.conv6(out)
    f.conv7(out)
    res2(out) + out
    classifier(out)
```

The dropdown lists several options starting with 'f.' such as 'f.conv1', 'f.conv2', etc.

Jika tidak ada (.venv) di bagian samping tolong jalankan command:

.\venv\Scripts\activate

Atau

.\venv\Scripts\activate.ps1



The screenshot shows the VS Code interface with the terminal tab active. The terminal window displays the command being run:

```
ps C:\PycharmProjects\PythonProject & c:/PycharmProjects/PythonProject/.venv/Scripts/Activate.ps1
```

The terminal shows two entries:

- ps C:\PycharmProjects\PythonProject & c:/PycharmProjects/PythonProject/.venv/Scripts/Activate.ps1
- (.venv) PS C:\PycharmProjects\PythonProject>

The right side of the screen shows the file explorer with multiple 'powershell' entries.

Setelah itu jalankan command “pip list” jika menghasilkan kosong tolong install requirement dengan command pip install -r .\requirements.txt

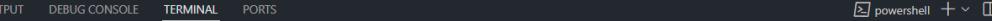
```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS powershell + ×
```

torch	2.5.1
torchaudio	2.5.1
torchvision	0.20.1
tornado	6.4.2
tqdm	4.67.1
typing_extensions	4.12.2
tzdata	2024.2
uritemplate	4.1.1
urllib3	2.3.0
watchdog	6.0.0

WARNING: There was an error checking the latest version of pip.

```
(.venv) PS C:\PycharmProjects\PythonProject> pip install -r .\requirements.txt
```

Setelah itu jalankan streamlit run .\main.py



PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

powershell + ×

```
PS C:\PycharmProjects\PythonProject> .\venv\Scripts\activate.ps1
(.venv) PS C:\PycharmProjects\PythonProject> streamlit run ./main.py
```

Dia akan menghasilkan output berikut. Jika browser tidak buka link bisa langsung ctrl+click local url atau network url

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS streamlit + ×
```

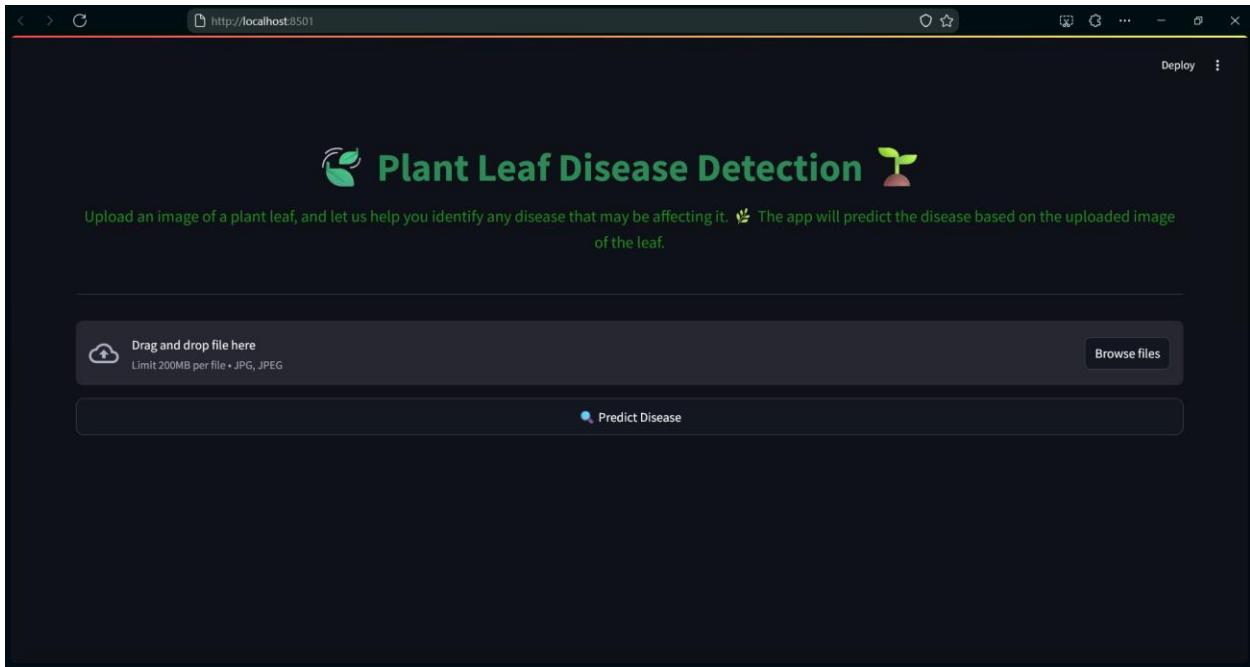
watchdog 6.0.0
WARNING: There was an error checking the latest version of pip.
PS C:\PycharmProjects\PythonProject> streamlit run .\main.py

You can now view your Streamlit app in your browser.

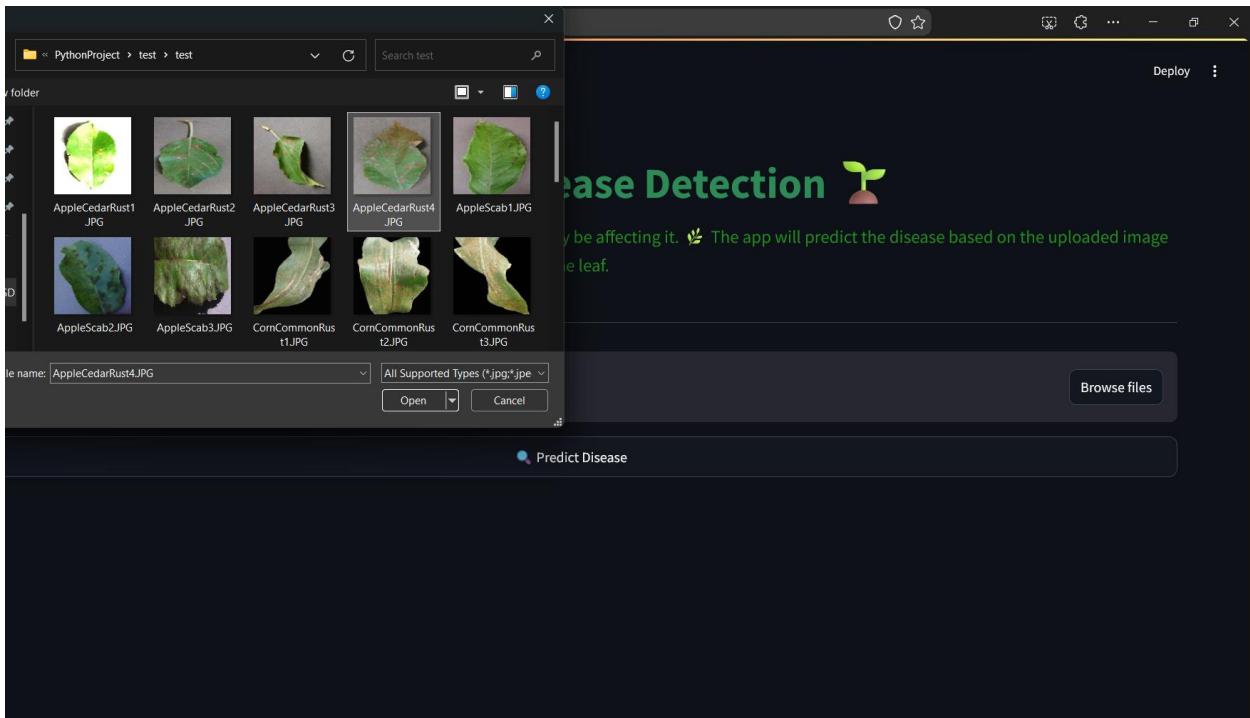
Local URL: http://localhost:8501
Network URL: http://192.168.0.104:8501

2024-12-27 12:53:56.711 Examining the path of torch.classes raised: Tried to instantiate class '__path__.__path__', but it does not exist! Ensure that it is registered via torch::class_

Website akan terbuka



Untuk menjalankan bisa click browse file dan memilih image. Bisa menggunakan test image yang ada di folder jika blm ada image



Setelah itu click predict disease dan menunggu hasil keluar

Uploaded Image

Predicted Disease: Apple Cedar Apple Rust

Okay, let's dive into Apple Cedar Rust.

What is Apple Cedar Rust?

Apple Cedar Rust is a fungal disease caused by the pathogen *Gymnosporangium juniperi-virginianae*. It's a fascinating disease because it requires two different host plants to complete its life cycle: apple trees (or other related rosaceous plants) and Eastern red cedar trees (or other junipers). The fungus spends different stages of its life on each host. This means that if either host is not present, the disease cannot complete its lifecycle.

How Does it Affect the Plant?

- **Apple Trees:** The fungus primarily attacks the leaves, but can also affect fruits and young twigs. The infection disrupts the plant's ability to photosynthesize effectively, leading to reduced vigor, smaller fruit size, premature leaf drop, and, in severe cases, a reduction in the overall yield.
- **Eastern Red Cedars:** On junipers, the disease manifests as distinctive reddish-brown galls that swell and produce gelatinous, orange, tentacle-like spore masses in the spring after rainfall. While not lethal to junipers, these galls can be unsightly and potentially weaken the affected branch.

Symptoms to Look Out For: