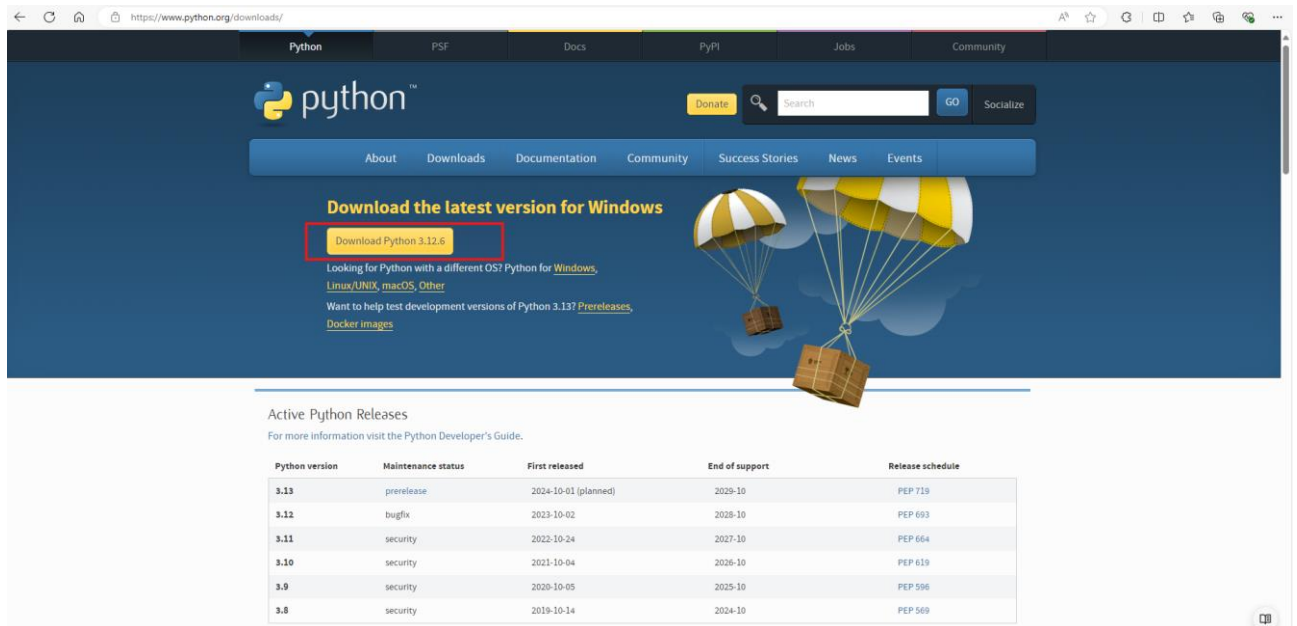


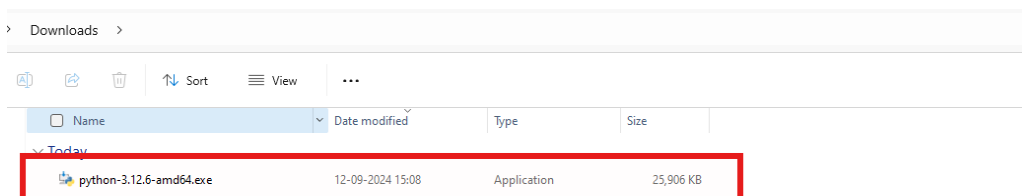
# Python Installation:

Visit the Python Website: [Download Python | Python.org](https://www.python.org/downloads/).

- On the homepage, you will see a button to download the latest version. Make sure it says Python 3.12. Click the "Download Python 3.12" button.



- Locate the downloaded installer (python-3.12.x.exe) in your downloads folder and double-click to run it.



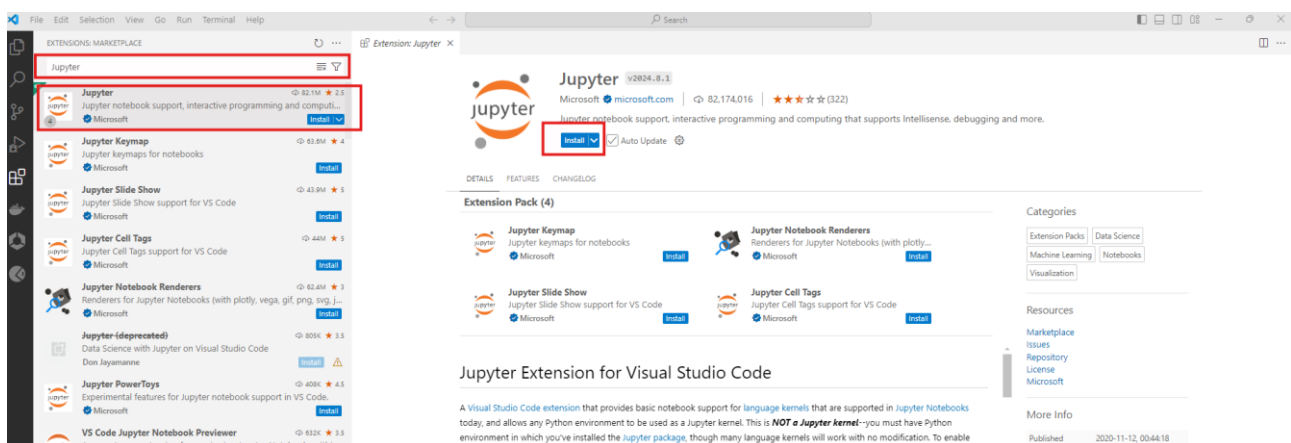
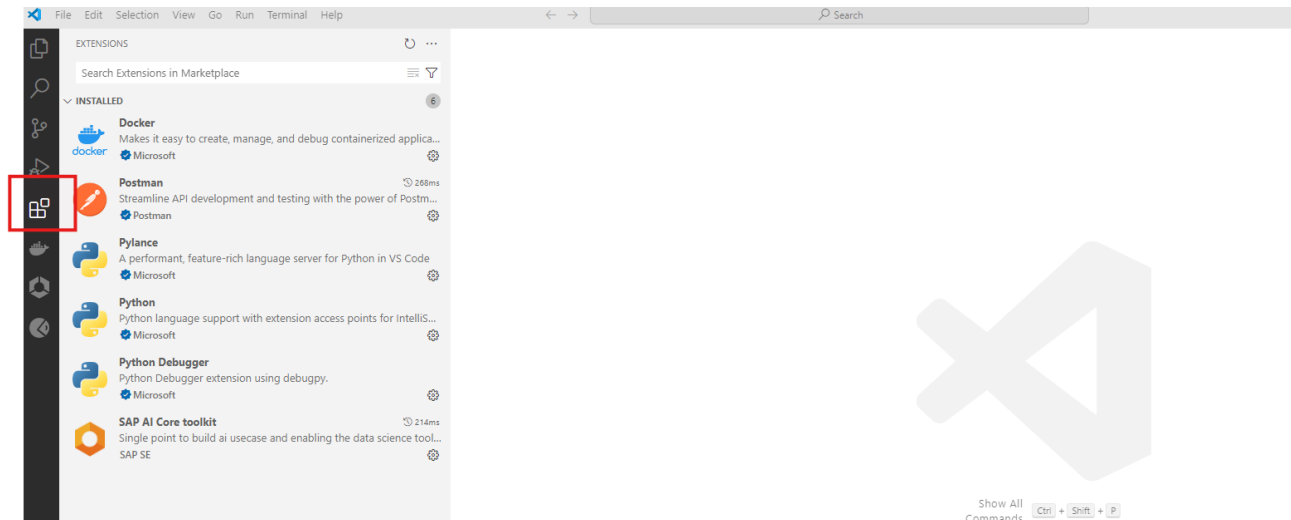
- **\*\*Important:** Check the box that says "Add Python 3.12 to PATH" before clicking "Install Now".
- **Once completed, To Verify Installation:** Open Command Prompt (Windows) or Terminal (Mac/Linux). Type `python --version` and press Enter. It should show `Python 3.12.x`.

```
Command Prompt
Microsoft Windows [Version 10.0.22631.4112]
(c) Microsoft Corporation. All rights reserved.

C:\Users\██████>python --version
Python 3.12.5
C:\Users\██████>
```

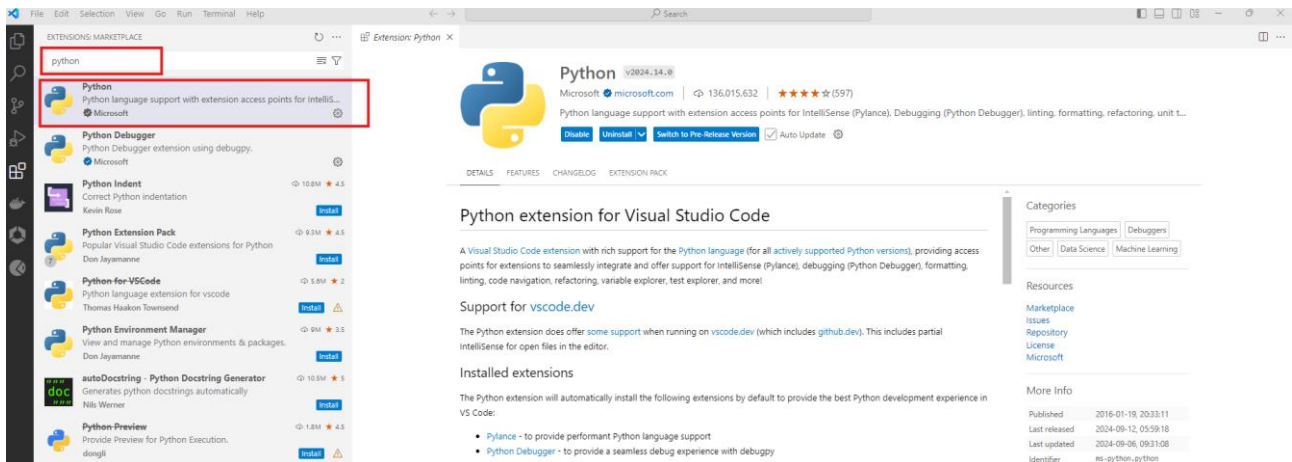
# Installing the Jupyter Extension in Visual Studio Code:

- Download and install Visual Studio Code from [here](#).
- Open VS Code, click on the **Extensions** icon, and search for "**Jupyter**".
- Click **Install** next to the Jupyter extension to enable Jupyter Notebook support in VS Code.

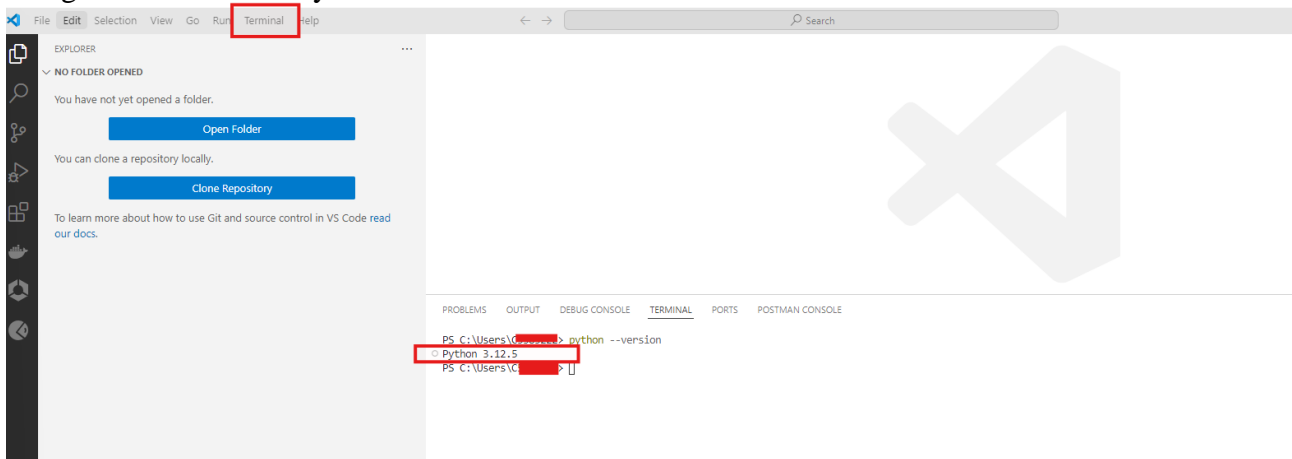


# Set Up Python Environment for VS Code:

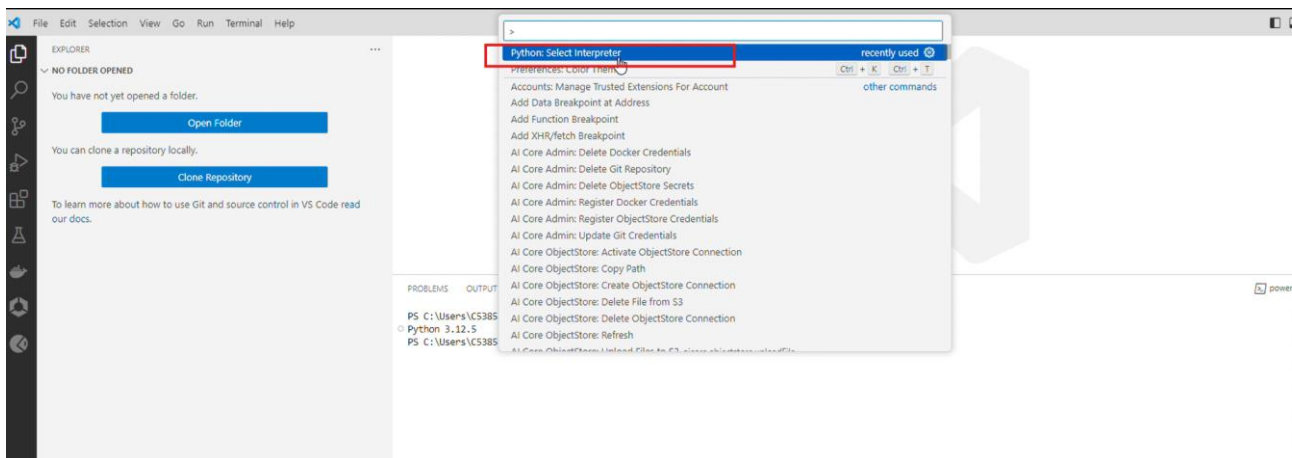
- Open VS Code and click on the Extensions icon on the sidebar, click on install.



- Open a new terminal in VS Code (Ctrl+ ) and type `python --version` to ensure VS Code recognizes the correct Python version.



- To set the interpreter, press 'Ctrl+Shift+P', then type and select "Python: Select Interpreter".



- Choose the Python 3.12 interpreter from the list.

