Working in Visual Studio Coder

Contents

VSCode on web:

VS Code is also available on the Web. No installation of the coder is required. One can use one's files on the Laptop and begin using it. VS Code marketplace is then available right inside this coder. For more about this feature on the web, read here.

Setting up VS Code Extensions

Immediately after installing Visual Studio coder, one has to install copilot and also certain other extensions.

Setting up GitHub Copilot

Preparing VSCode on installation. First setup GitHub copilot. One needs to have an account in GitHub for the purpose. For GitHub copilot, one gets huge number of results.

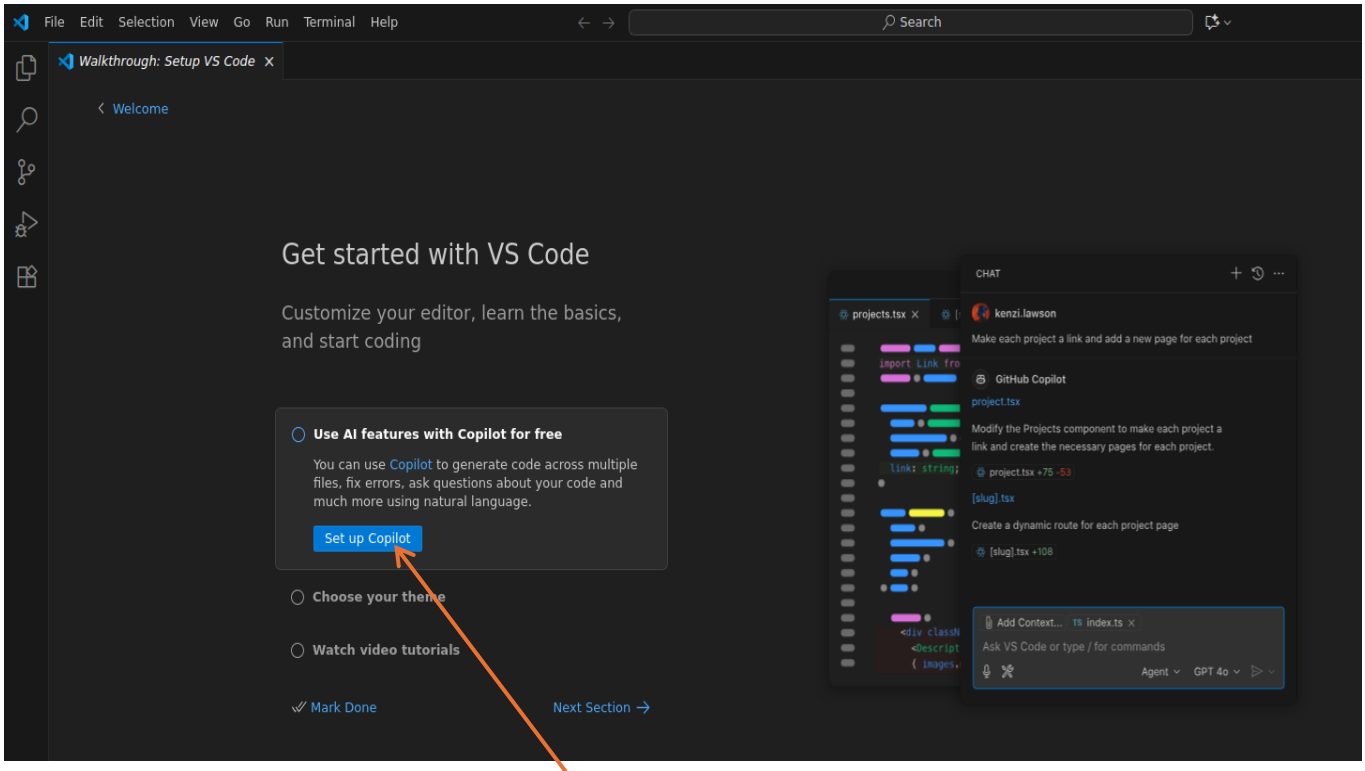


Figure 1: VSCode on startup. Click on the button Set up copilot

On clicking, Setup Copilot button, one is asked to login to GitHub. Do it. Signing in to github.com takes lots of time. So wait...

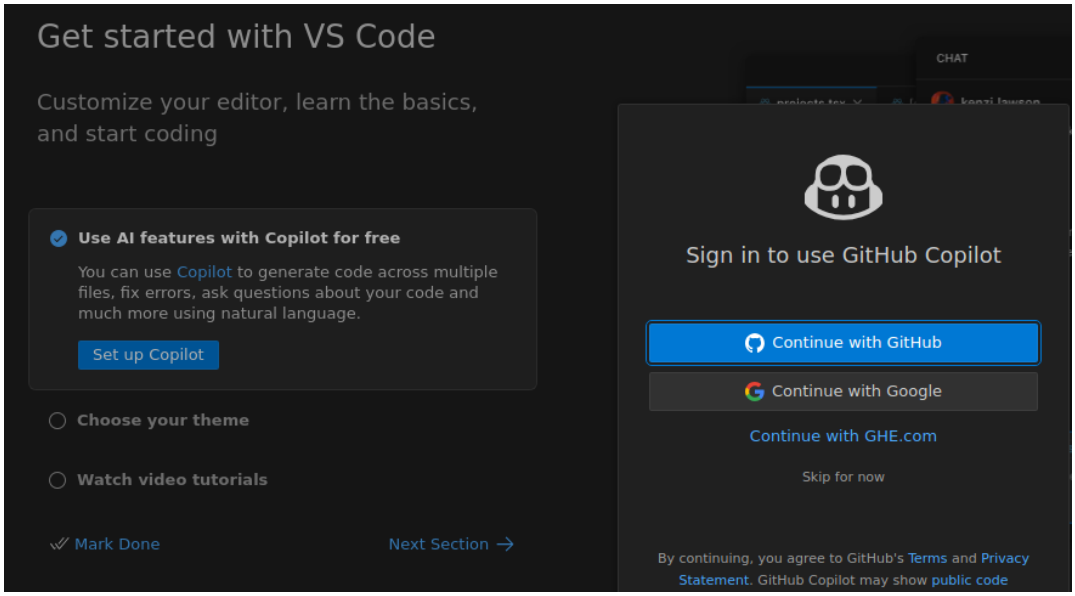


Figure 2: Click on Continue with GitHub and supply your password.

Signing in fails. You may be asked a question as below. Answer Yes.

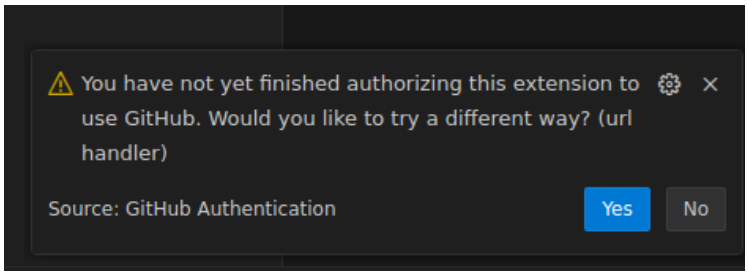


Figure 3: Say Yes.

But in my case, it has failed again. I am asked the next question:

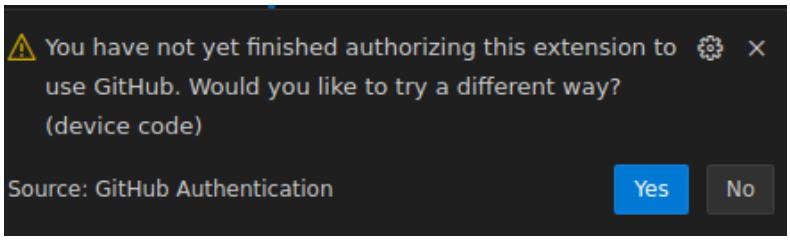


Figure 4: This time a device code will be given. Say Yes

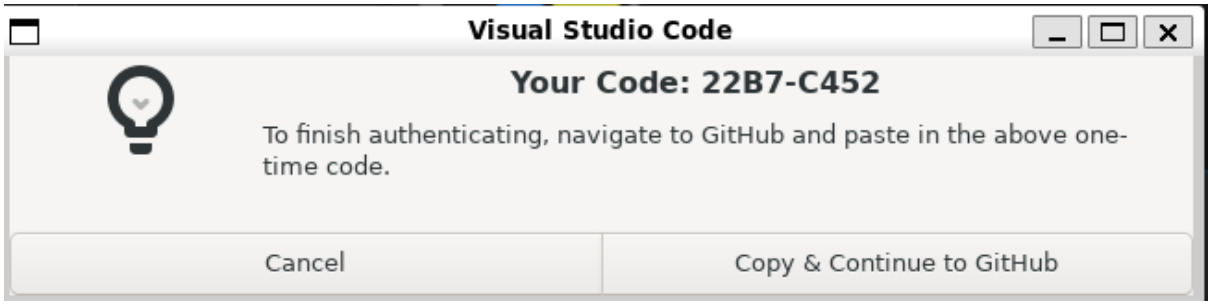
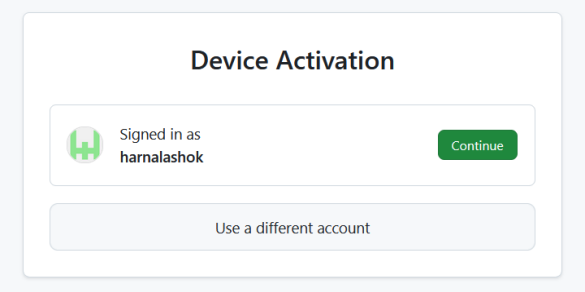


Figure 5: Note down the device code.

Note down the code carefully in a notepad. Visual Studio Coder asks you to enter this code in a GitHub site. Note the address of that site. And enter the code. You are done.



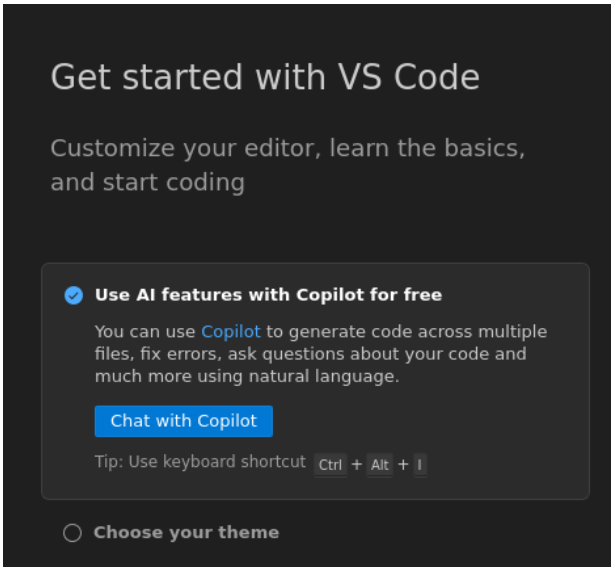


Figure 6: The earlier button changes to Chat with Copilot. Click it and start chatting. You will get a reply.

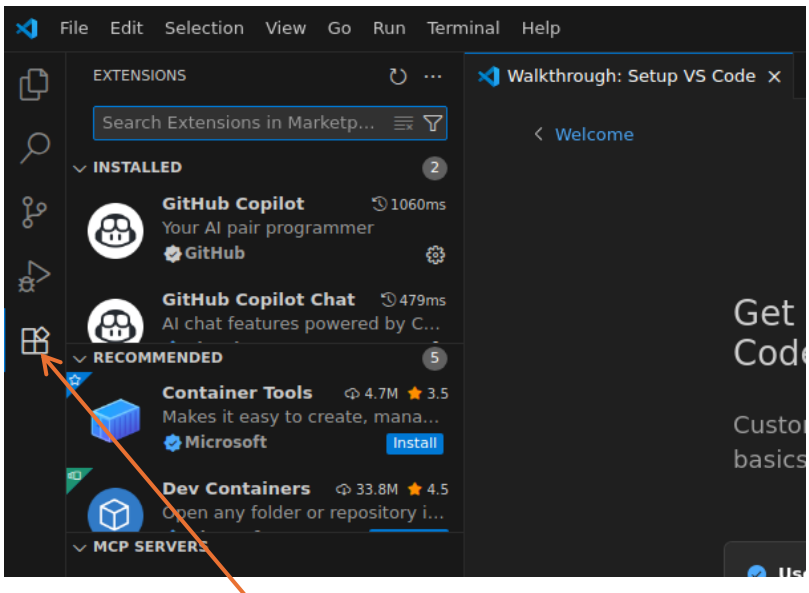
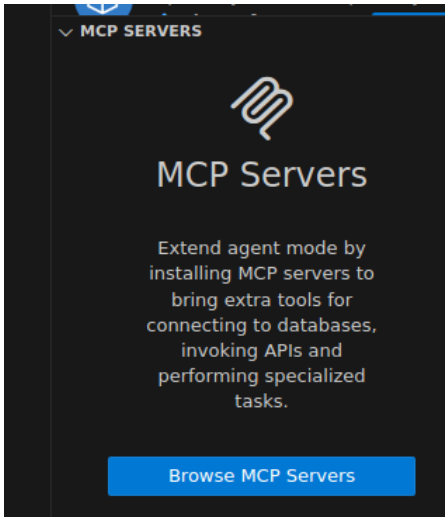


Figure 7: Click Extensions and then you see GitHub Copilot installed.



Installing zencoder:

You can, if you like, install *zencoder* into VSCode from [Visual Studio Marketplace]():

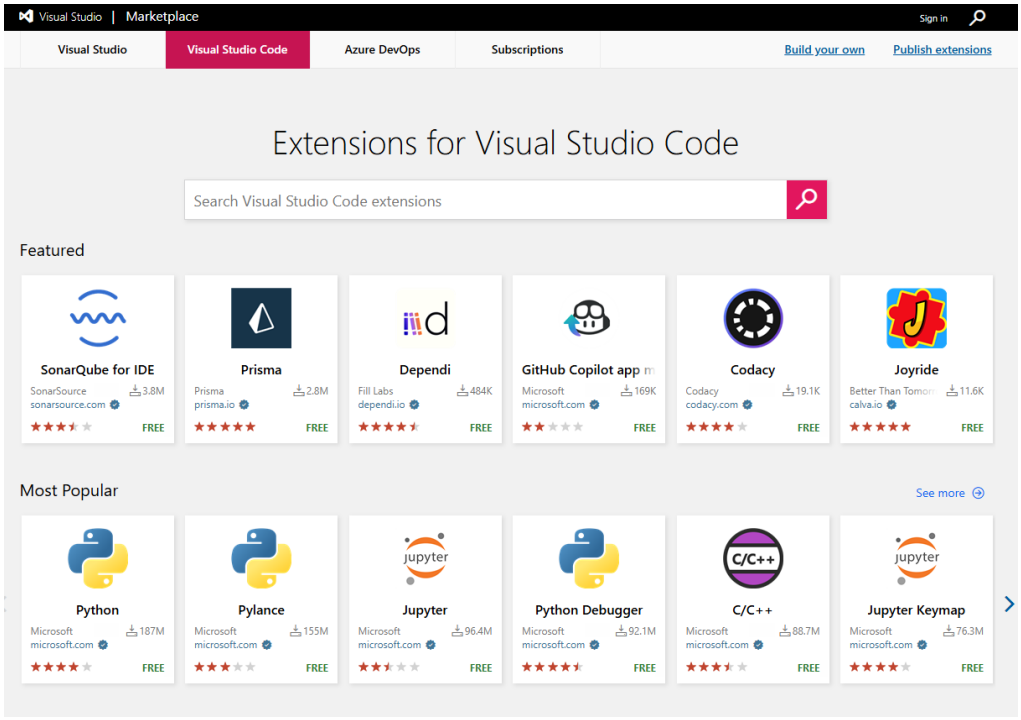


Figure 8: Visual studio marketplace. Search for zencoder

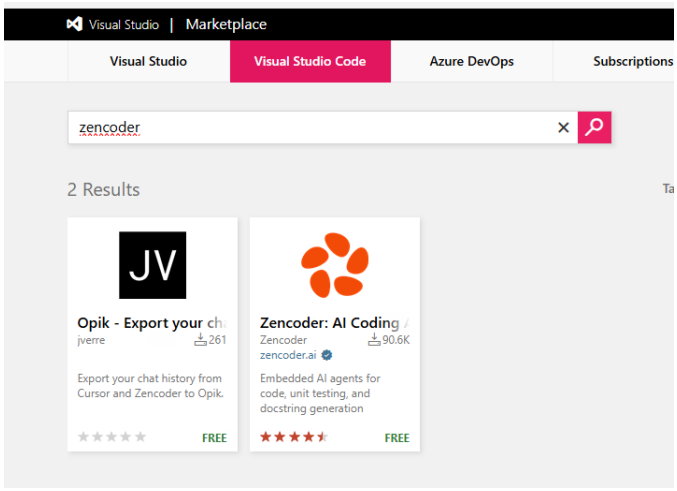


Figure 9: Click Zencoder and then click Install button to install it in VSCode

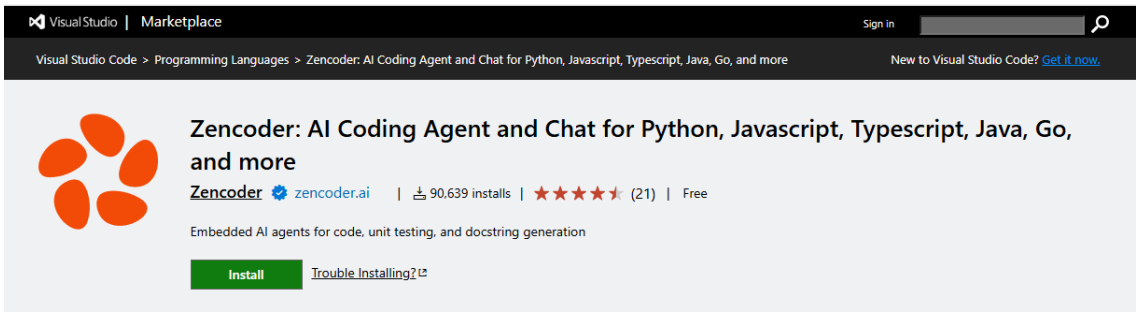


Figure 10: Click Install button

Zencoder will then appear in VSCode Extensions, as below:

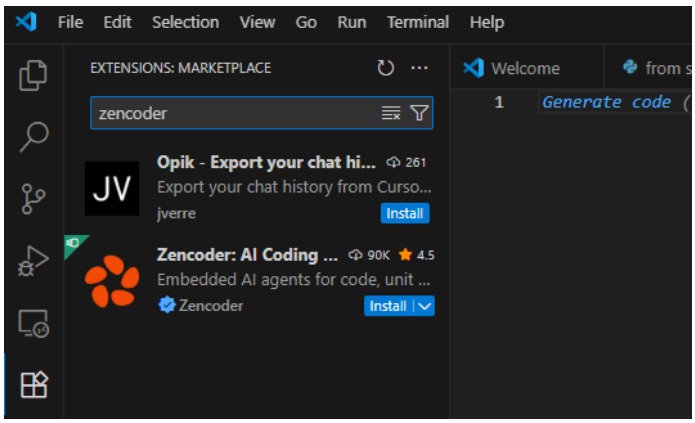


Figure 11: Zencoder as VSCode extension.

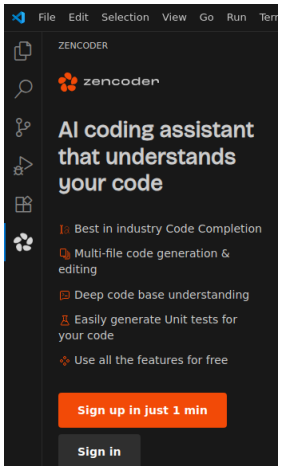


Figure 12: Before signing in you need to have api key got zencoder and for opik.

We will, however, use GitHub copilot to create a tool. You can install the first two shown below:

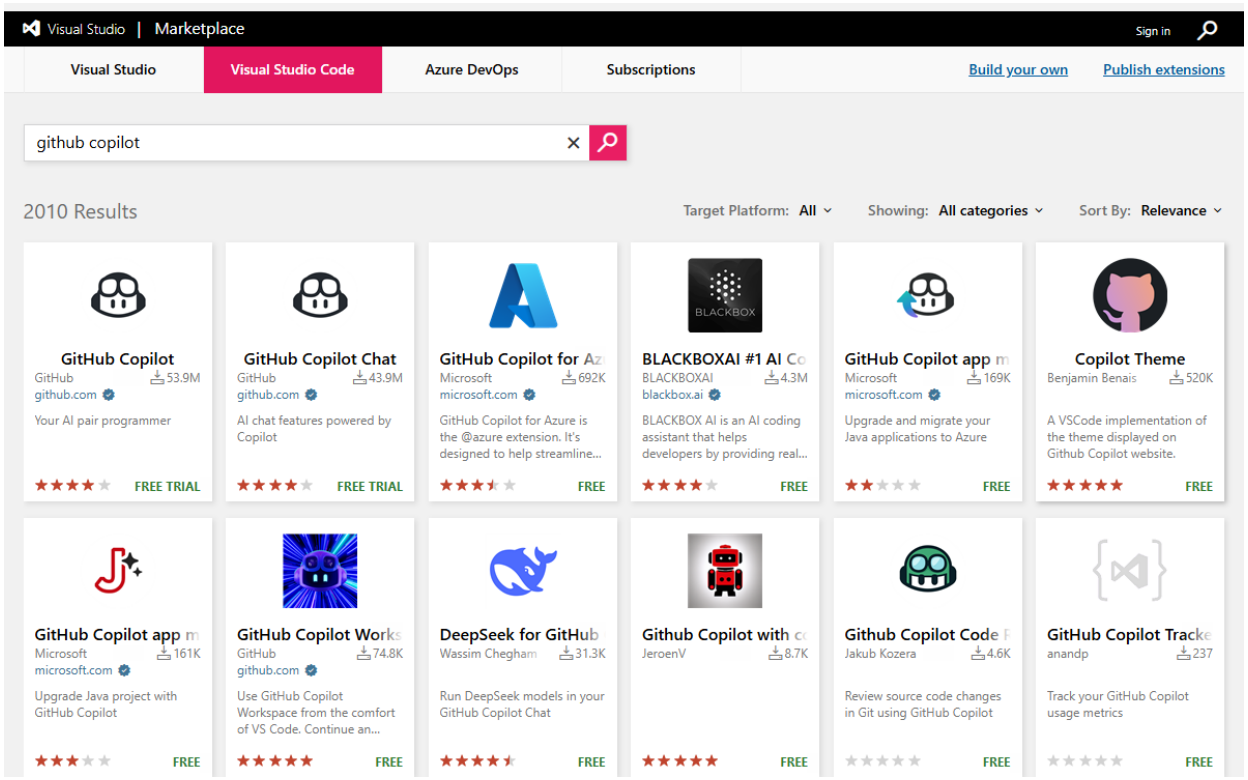


Figure 13: Install GitHub copilot and GitHub copilot chat.

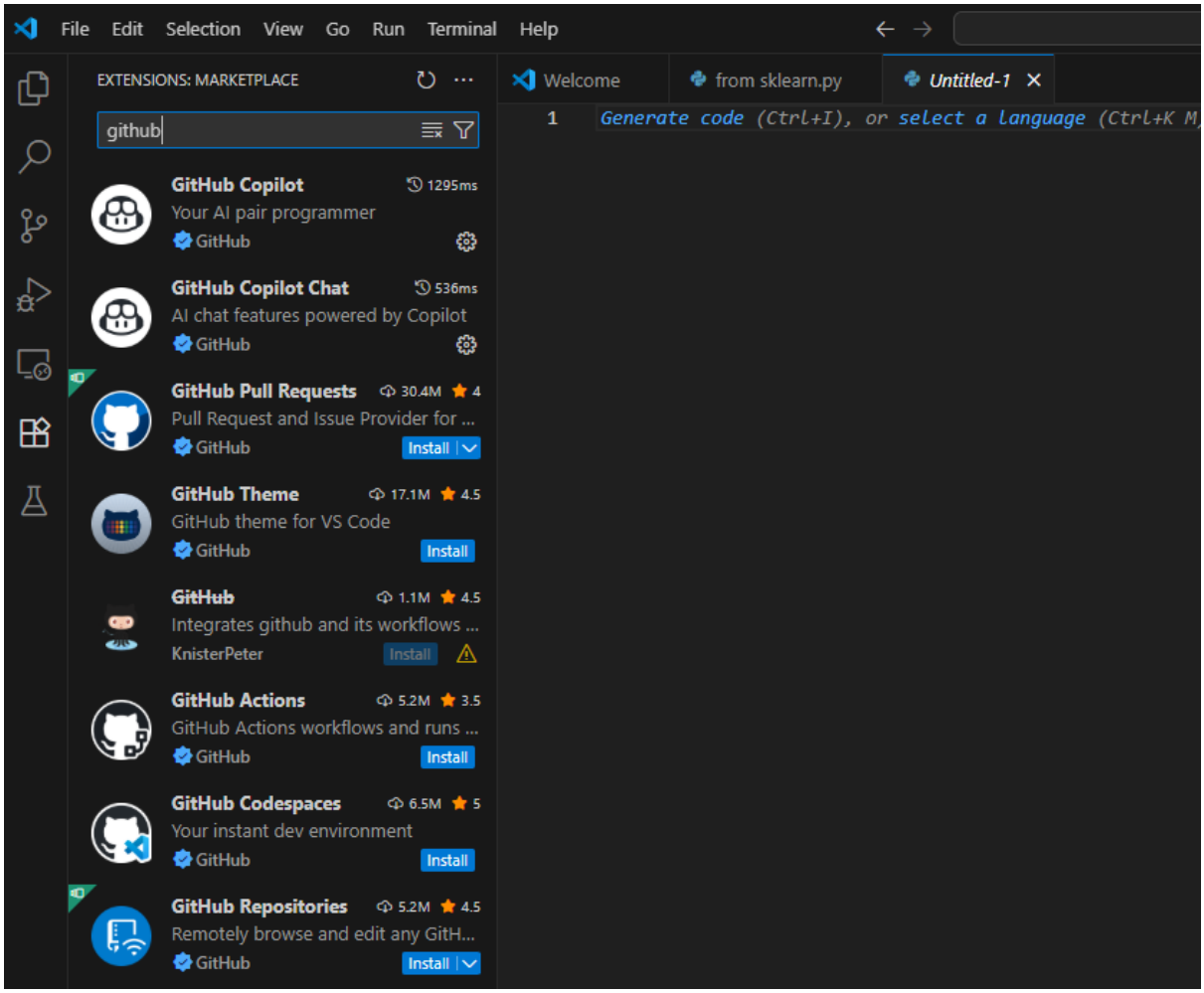


Figure 14: GitHub extensions available in VSCode for installation.

VS Code free coders (ollama):

Visual Studio Code (VS Code) integrates with GitHub Copilot, offering a free plan with limited usage for coding assistance and chat. Other free AI-powered tools available for VS Code include the autonomous agent Roo Code, AWS CodeWhisperer's free tier, and options to run local open-source models using tools like Ollama. Ollama coder are not that good for coding frontline technologies (or recent technologies). May of its coders are a year old.

GitHub Copilot

- **Free Plan:**

  VS Code offers a free plan for GitHub Copilot, providing a monthly limit of code suggestions and chat interactions.

- **AI-Powered:**

  It's an AI coding assistant that offers context-aware code suggestions and explanations for various programming languages and frameworks.

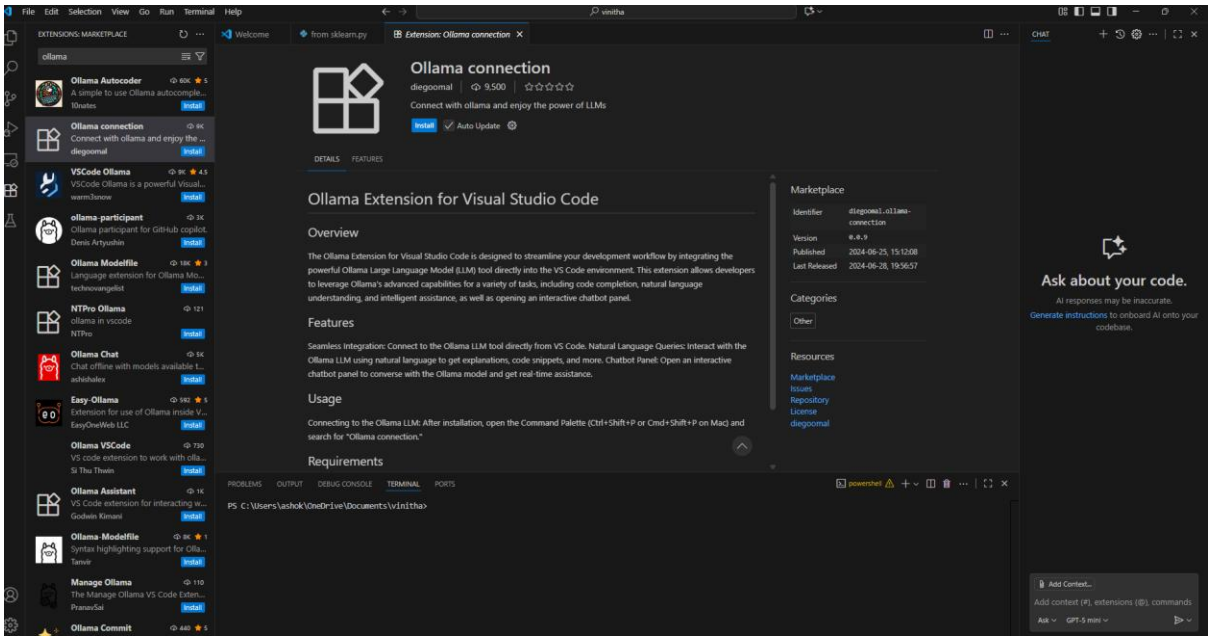


Figure 15: Enabling ollama connection

Roo coder:

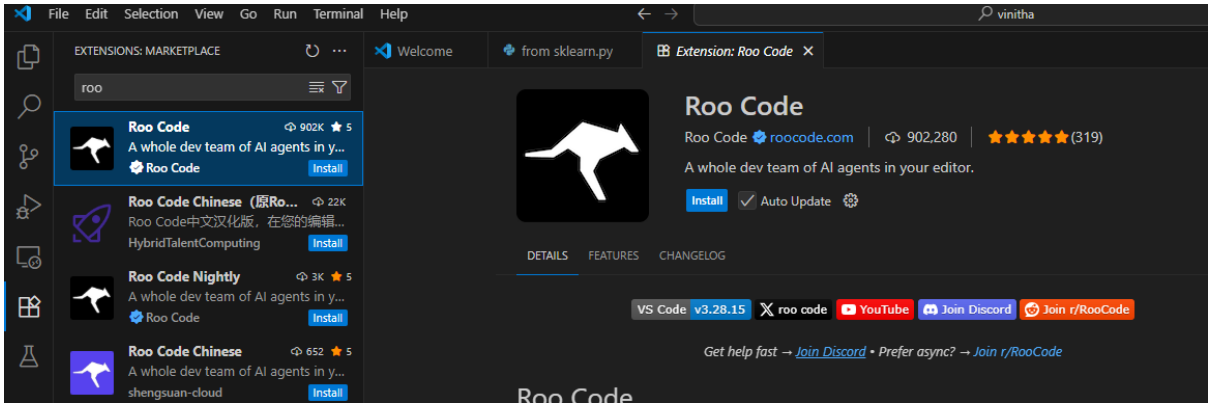


Figure 16: Roo code enables connection to many free coders just as Openrouter does

After installation of Roo code, its icon appears on the side panel of the editor:

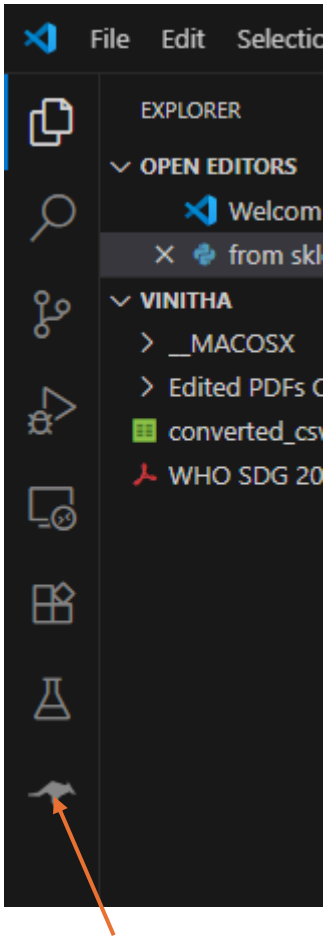


Figure 17: Roo coder icon appears after installation.

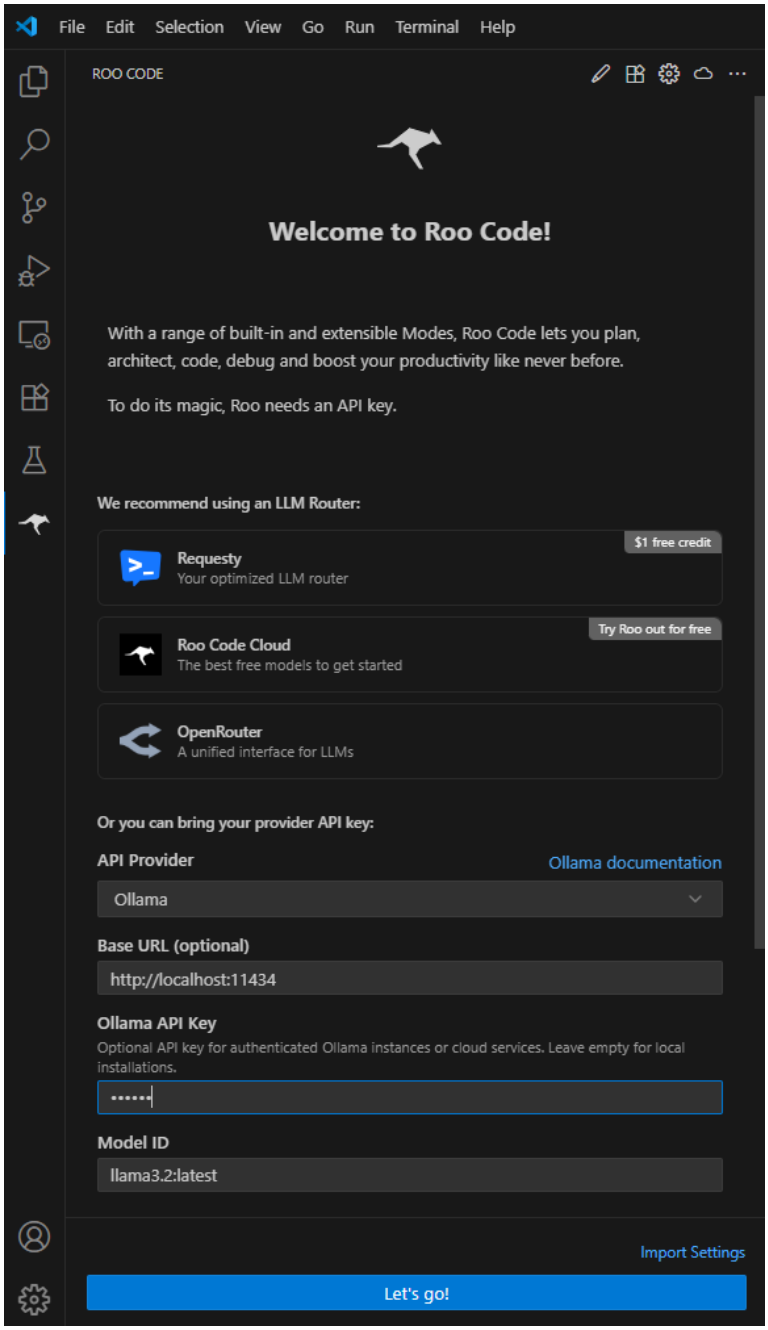


Figure 18: Click on Roo Coder icon (Kangaroo icon), from drop-down, select ollama and connect with it. Also specify the LLM to use.

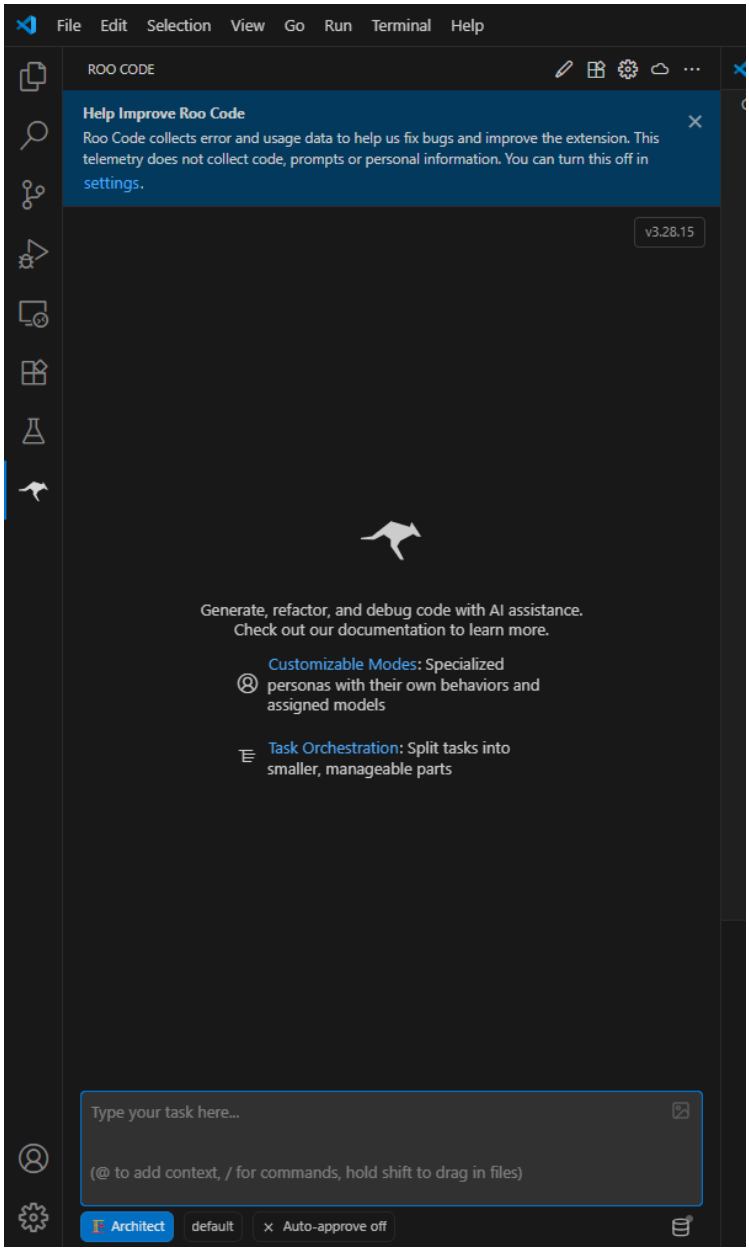


Figure 19: Chatbox after configuring ollama.

Installing python extensions:

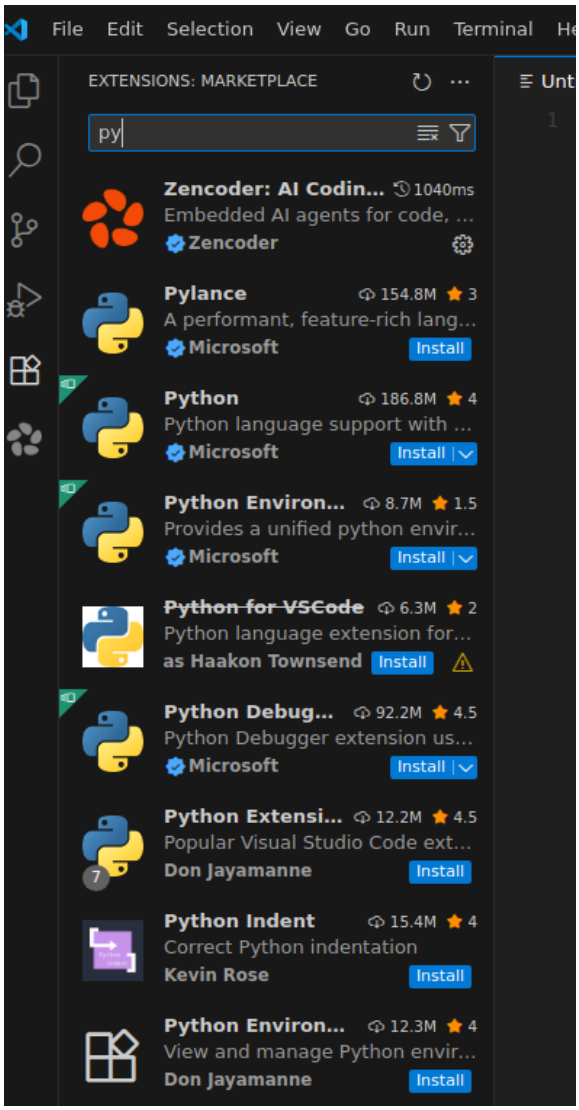


Figure 20: Install python extensions also. Pylance, Python, Python Environments, Python Debug, Python Extension Pack, Python indent

Dealing with import errors

Ref: Stack Overflow

Without setting proper python environment, one may get 'import errors' for installed python packages. Open shell for Anaconda Prompt and write where to get the address of python.exe:

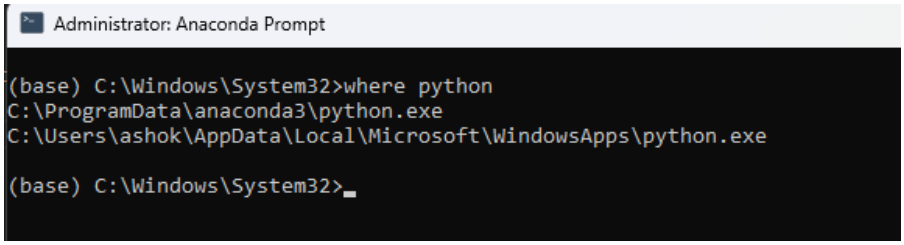


*Figure 21: Get address of python.exe by writing **where python** in the anaconda prompt.*

In Visual Studio Coder, press ctrl+shift+p and in the search box, write *settings.json*. Click to open user settings.

Figure 22: Press ctrl+shift+p. Write settings.json. Select Open User Settings (JSON). Write correct python.exe path against: `python.defaultInterpreterPath`. Note the backslashes .

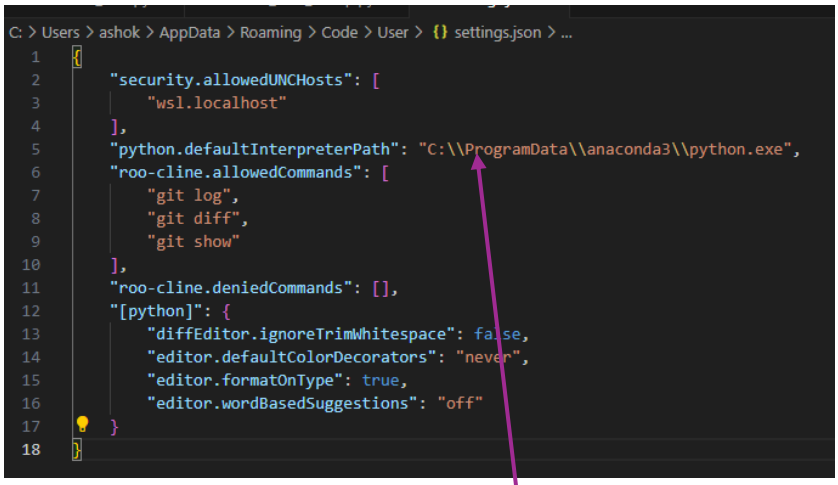


Figure 23: Write the correct python.exe path.

Write the correct python path against: `"python.defaultInterpreterPath": "<PATH RETURNED ABOVE>"`. Save it, close `json.settings`, close Visual Studio Coder and open again.

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