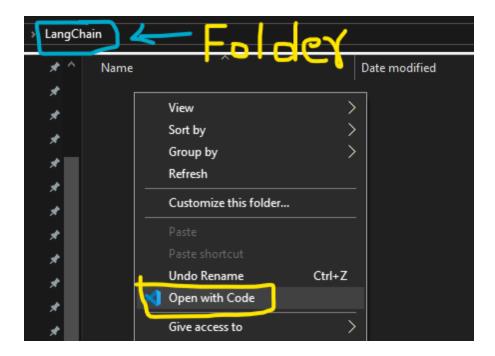
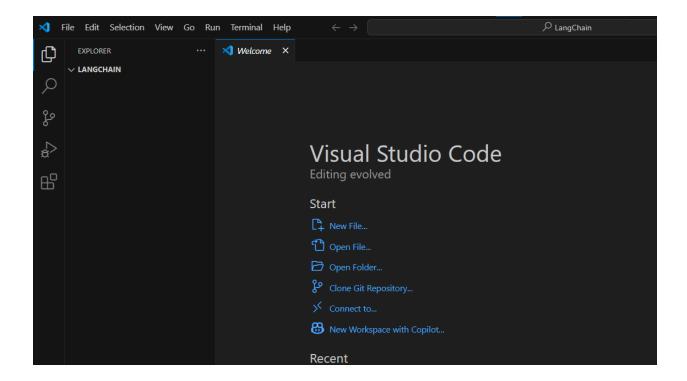
Create Virtual Environment

• Inside Langchain folder, right click → Open with code



• This will open the folder inside VS Code:



Open Terminal:

ctrl + J

\$ python -m venv myenv

Activate the environment:

source myenv/Scripts/activate



The above commands only work for BASH

Create a requirements.tx file:

1 langchain 2 ipykernel

langchain python-dotenv

LangChain Core langchain-core

OpenAl Integration # langchain-openai # openai

Anthropic Integration langchain-anthropic

Google Gemini (PaLM) Integration langchain-google-genai google-generativeai

Hugging Face Integration langchain-huggingface transformers huggingface-hub

Environment Variable Management python-dotenv

Machine Learning Utilities numpy scikit-learn

ipykernel streamlit langchain_groq fastapi langserve

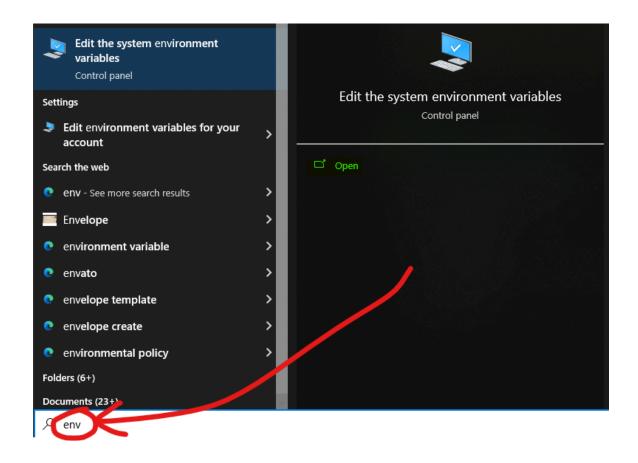
```
sse_starlette
langchain_chroma
faiss-cpu
```

pip install -r requirements.txt

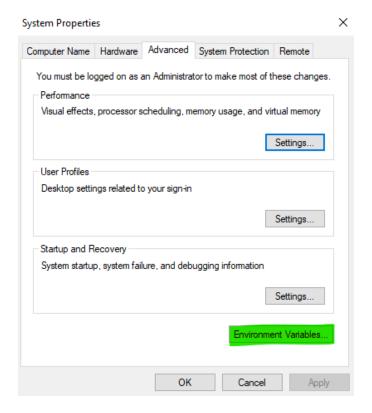
```
Using cached sniftio-1.3.1-py3-none-any.whl.metadata (3.9 kB)
Downloading langchain-0.3.25-py3-none-any.whl (1.0 MB)
                                           1.0/1.0 MB 8.0 MB/s eta 0:00:00
Downloading langchain_core-0.3.60-py3-none-any.whl (437 kB)
                                           437.9/437.9 kB 9.1 MB/s eta 0:00:00
Downloading langchain_text_splitters-0.3.8-py3-none-any.whl (32 kB)
Downloading langsmith-0.3.42-py3-none-any.whl (360 kB)
                                           360.3/360.3 kB 10.9 MB/s eta 0:00:00
Using cached pydantic-2.11.4-py3-none-any.whl (443 kB)
Using cached pydantic_core-2.33.2-cp312-cp312-win_amd64.whl (2.0 MB)
Using cached PyYAML-6.0.2-cp312-cp312-win_amd64.whl (156 kB)
Using cached requests-2.32.3-py3-none-any.whl (64 kB)
Downloading sqlalchemy-2.0.41-cp312-cp312-win_amd64.whl (2.1 MB)
                                           2.1/2.1 MB 10.4 MB/s eta 0:00:00
Using cached annotated_types-0.7.0-py3-none-any.whl (13 kB)
Using cached certifi-2025.4.26-py3-none-any.whl (159 kB)
Using cached charset_normalizer-3.4.2-cp312-cp312-win_amd64.whl (105 kB)
Downloading greenlet-3.2.2-cp312-cp312-win_amd64.whl (296 kB)
                                           296.2/296.2 kB 6.1 MB/s eta 0:00:00
Using cached httpx-0.28.1-py3-none-any.whl (73 kB)
Downloading httpcore-1.0.9-py3-none-any.whl (78 kB)
                                            78.8/78.8 kB ? eta 0:00:00
Using cached idna-3.10-py3-none-any.whl (70 kB)
Downloading jsonpatch-1.33-py2.py3-none-any.whl (12 kB)
Downloading orjson-3.10.18-cp312-cp312-win_amd64.whl (134 kB)
                                           134.8/134.8 kB 7.8 MB/s eta 0:00:00
Using cached packaging-24.2-py3-none-any.whl (65 kB)
Downloading requests_toolbelt-1.0.0-py2.py3-none-any.whl (54 kB)
                                           54.5/54.5 kB 2.8 MB/s eta 0:00:00
Downloading tenacity-9.1.2-py3-none-any.whl (28 kB)
```

2With Conda:

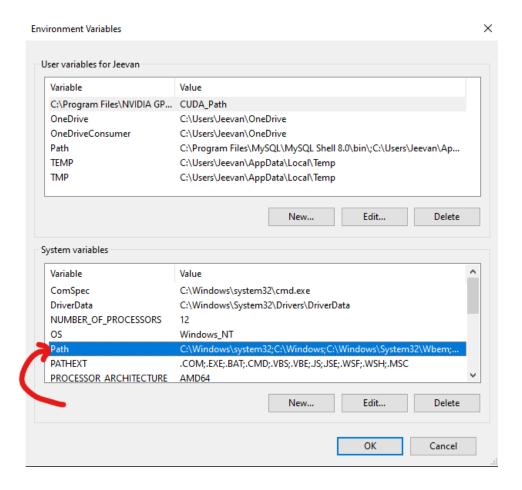
- Install Anaconda or Miniconda
- · Find the installation folder
- Go to condabin
 - C:\Users\Jeevan\miniconda3\condabin
- Copy the path
- Type "env" and open the following



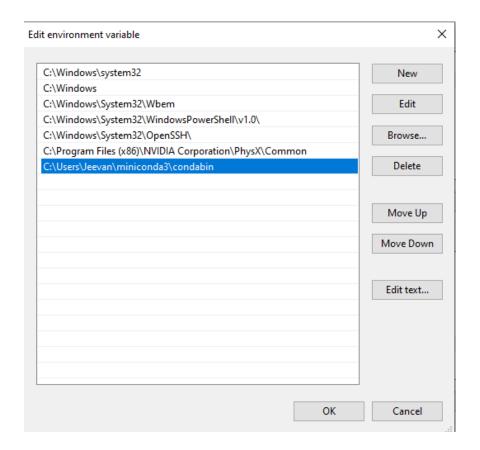
• Click environment variables



• Double click Path



• Double click in the black space and add the copied path



Press OK and restart the terminal

Create the venv with Conda

conda create -p venv python==3.10

Create a requirements.txt file:

langchain
python-dotenv

LangChain Core
langchain-core

OpenAl Integration

```
# langchain-openai
# openai
# Anthropic Integration
langchain-anthropic
# Google Gemini (PaLM) Integration
langchain-google-genai
google-generativeai
# Hugging Face Integration
langchain-huggingface
transformers
huggingface-hub
# Environment Variable Management
python-dotenv
# Machine Learning Utilities
numpy
scikit-learn
langchain-community
pypdf
bs4
arxiv
pymupdf
wikipedia
tiktoken
sentence-transformers
langchain-chroma
faiss-cpu
langchain-chroma
```

Activate the environment:

conda activate "D:\Python Env\LangChain\venv"

pip install -r requirements.txt

This will take some time and after that you're good to go.

!!Set VS Code to Auto-Activate the Environment



We need to activate the venv every time we open vs code. Follow these steps to avoid deactivating it.

In any terminal (CMD/PowerShell) in VS Code, run:

conda activate "D:\Python_Env\LangChain\venv"

Set VS Code to Auto-Activate the Environment

- 1. Open the **Command Palette** (Ctrl+Shift+P).
- 2. Search for:CopyDownload

Python: Select Interpreter

3. Choose the Python executable from your venv : CopyDownload

 $\hbox{\tt D:\Python_Env\LangChain\venv\python.exe}$

(VS Code will now auto-activate this environment in new terminals.)

Ensure Conda is Initialized for VS Code

Run these commands **once** to fix terminal auto-activation:

conda init cmd.exe # For CMD conda init powershell # For PowerShell

Restart VS Code afterward.

Verify the Environment

Check if the environment is active:

conda info --envs

- The active env will have a next to it.
- Confirm Python path:

where python # Should point to your venv