■ Setup Guide: Intro to Generative AI Environment

Step 1: Create Course Folder

Open Anaconda Prompt (or terminal) and run: cd Desktop # or Documents (any location) mkdir intro-to-genai cd intro-to-genai

Step 2: Create requirements.txt

Inside intro-to-genai folder, create a file called requirements.txt and paste:

Core LangChain langchain langchain-core langchain-community langchain-openai langchain-anthropic langchain-google-genai

Vector DBs faiss-cpu chromadb pinecone-client

Hugging Face transformers huggingface_hub

Deep Learning (CPU safe) torch torchvision tensorflow

Web/API tools flask streamlit

Data & Utils numpy pandas scikit-learn matplotlib seaborn python-dotenv

Jupyter support ipykernel

Step 3: Create Conda Environment

conda create -n genai python=3.10 -y conda activate genai

Step 4: Install Requirements

pip install -r requirements.txt

Step 5: Register Jupyter Kernel

python -m ipykernel install --user --name=genai --display-name "Python (genai)"

Step 6: Open VS Code

code.

Now open any .ipynb notebook and select the kernel \rightarrow Python (genai).