[Full-Stack AI with Python: LLMs, RAG, Agents & LangGraph](https://www.udemy.com/course/full-stack-ai-with-python/)

1. **Section 1: Introduction**
   1. **1. Installation of Tools (VSCode and Python)**
      1. IDE: Download VSCode.
      2. Install python latest version
         1. `python --version`
         2. In my cmd: Python 3.12.1
         3. In my WSL: Python 3.10.12
         4. Know the basic of python like variable, functions, math operations, classes
            1. `python` in terminal -> Open REPL
      3. Will use OpenAI, Gemini and other LLM’s. be aware of Chatgpt and have am account on openai. Will wak through on how to add credits in openai account.
   2. **2. VS Code Setup (Extensions and Themes)**
      1. Pylance, Ayu-miraj(theme) vscode extention
   3. **3. SRC code received**
2. **Section 2: Introduction to Coding world with python**
   1. **4. Meet your Instructor – Hitesh**
      1. Hitesh Intro
   2. **5. What is Programming..?**
      1. Install VS code
      2. <https://app.eraser.io>, <https://tldraw.com>, <https://excalidraw.com> -> drawing tool
      3. Programming –
         1. It’s about giving instructions to computer, especially the instruction that computer do understand.
         2. Computers can’t think on their own, including AI (just patterns & word completions).
         3. Requires precise instructions. Eg: making chai, we need to give set of instructions to make chai.
         4. Key Points on Coding Difficulty
            1. Is coding easy? → No and Yes.

Writing basic code: easy to start.

Becoming good programmer: takes months to years of effort.

* + - * 1. Coding is about problem breakdown and thinking process, not just writing syntax.
        2. Simple programs can be learned in a few months (Python & JavaScript more beginner-friendly).
  1. **6. Convert that into Python Code**
     1. **Start from here**