

GENAI & AGENTICAL BOOTCAMP

Become an *AI Developer.*

A live, hands-on program that takes you from basic Python to building real AI apps, agents and automations, taught in real time by working IT professionals.

22

IN-DEPTH MODULES

11

REAL PROJECTS

Live

INSTRUCTOR-LED CLASSES

WHAT YOU'LL BUILD

Weather Agent

Live data, memory and its own web app

AI Spreadsheet Bot

Summarizes new data and emails reports

Recipe Generator

Turns a photo of ingredients into meals

Voice Assistant

Listens, thinks and talks back

Document Q&A (RAG)

Answers questions from your own files

AI Coding Agent

Your own Claude Code-style assistant

LIVE CLASSES • MONDAY TO FRIDAY

9:30 – 10:30 PM *EST*

plurallabs.com

Questions? WhatsApp Naushad

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Foundations & *your first AI agents.*

01 Foundations of AI-Powered Apps

How LLMs and chatbots work, what makes an app "AI-powered," and the core ideas behind RAG and agents. Then you'll write your first AI app in Python.

02 Prompt Engineering Fundamentals

Zero-shot, few-shot, chain-of-thought and ReAct prompting, plus context engineering to write system prompts that get reliable results.

03 Building AI Agents

Learn how function calling lets an LLM use tools. Build your first agent, give it multiple tools and guide it with a well-written system prompt.

04 Your First Real-World Agent **PROJECT**

Build a weather agent that pulls live data, detects the user's location and turns raw results into clear, helpful answers.

05 Giving Agents Memory

Learn how agents remember. Add conversation memory, handle multiple chats and create a continuous, context-aware conversation.

06 Persistent Database Memory

Save chat history in SQLite and in a cloud PostgreSQL database on Supabase, so your agent remembers users across sessions.

07 Turning Your Agent into a Web App **PROJECT**

Take your agent to the browser with a homepage, HTTP requests, user sessions, CSS styling and the visitor's GPS location.

08 Running Open-Source Models Locally

Run open-source LLMs on your own machine with Ollama, compare different models and connect them to Python with LangChain.

Automation, vision & *creative AI*.

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- 09 Building Your Own LLM Service** PROJECT
Wrap a language model in your own API, complete with chat history support, so any app can plug into it.
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- 10 Getting Structured Output from LLMs**
Get clean, predictable data such as JSON from LLMs and agents, so AI responses drop straight into your code.
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- 11 Spreadsheet & AI Automation** PROJECT
Build a bot that reads new spreadsheet rows, summarizes them with an LLM, emails the report through Gmail and runs on a schedule.
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- 12 Working with Private Google Sheets** PROJECT
Securely connect Python to private Google Sheets to read, add and update data automatically.
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- 13 Teaching AI to See Images**
Send images to Google Gemini and OpenAI models and have them describe, analyze and answer questions about what they see.
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- 14 Recipe Generator from Photos** PROJECT
Build an app that looks at a photo of your ingredients and suggests recipes, with a friendly web interface made in Gradio.
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- 15 Generating Images with AI**
Create images from text prompts with Google's AI models, and learn how pricing, dashboards and billing work on major AI platforms.
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Voice, RAG & *autonomous agents*.

16 AI Voice Assistant **PROJECT**

Build an assistant that listens to your voice, turns speech into text, gets an answer from an LLM and speaks it back to you.

17 Chat with Your Documents **PROJECT**

Load your own documents and feed them to an LLM as context, so it can answer questions about them in an ongoing conversation.

18 Building a Full RAG System **PROJECT**

Build retrieval-augmented generation end to end: chunking text, creating embeddings, using a vector store and retrieving the right context.

19 Agents That Search the Web **PROJECT**

Give agents live internet access with Tavily, run multiple searches and turn the results into well-researched articles.

20 Your Own AI Coding Agent **PROJECT**

Build a Claude Code-style agent using the ReAct pattern, with file access and live streaming of its reasoning and tool use.

21 Polishing Your Coding Agent

Give your agent a clean, styled console interface and the ability to read, write and organize files and folders on its own.

22 Building Safely with AI

Learn the essentials of LLM app security and data privacy, the vulnerabilities AI-generated code often hides, and how to catch them.

Know Python basics? *You're ready.*

WHO IT'S FOR

- ✓ New programmers who've learned Python and want to build with AI
- ✓ Students and graduates preparing for AI-focused roles
- ✓ Developers adding LLMs and agents to their skill set
- ✓ Professionals who want to automate their work with AI

WHAT YOU'LL WALK AWAY WITH

- ✓ A portfolio of 11 working AI projects you built yourself
- ✓ Hands-on experience with OpenAI, Gemini and open-source models
- ✓ Practical skills in agents, RAG, automation and multimodal AI
- ✓ A security-first mindset for shipping AI apps responsibly

Everything included. *No upsells.*

Live Instructor-Led Classes

Lifetime Class Recordings

1:1 Doubt Solving

Reviewed Assignments

TOOLS YOU'LL USE

Python

OpenAI

Gemini

Ollama

LangChain

Supabase

Gradio

Tavily

CLASS SCHEDULE

**Monday – Friday
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Live online · Instructor-led

SEATS ARE LIMITED

Reserve your seat. *Message Naushad.*

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