



UNLEASH THE POWER: Python for AI & ML

From First Script to Intelligent Agent.

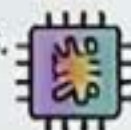
Ready to master the language that powers 90% of the world's AI?
Join our comprehensive program to go from a Python Beginner to a Machine Learning Specialist using the industry's most cutting-edge libraries.



PHASE 0: GEN AI FOUNDATIONS (THE "BRAIN")

Understand the revolution before you code it.

- **The Gen AI Story:** Text Generation and Chatbots.
- **What is an LLM?:** Understanding Large Language Models.
- **Prompt Engineering 101:** Effective strategies and best practices.



PHASE 1: PYTHON & DATA SCIENCE (THE "SKELETON")

Master the tools of the trade.



- **Modern Python Mastery:** Basics to Advanced—Functions, Decorators, and Async/Await.
- **The Data Trinity:**
 - **NumPy:** Essential numerical computing and array manipulation.
 - **Pandas:** Efficient data analysis and data frames.
 - **Visualization:** Creating insightful charts with Matplotlib and Seaborn.



PHASE 2: MACHINE LEARNING & DEEP LEARNING (THE "MUSCLE")

Build models that learn from experience.

- **Classical ML** with Scikit-learn (regression)
- **Deep Learning** with PyTorch & TensorFlow (multilayer neur)
- **Computer Vision** with OpenCV (camera)



PHASE 3: AGENTIC AI & DEPLOYMENT (THE "SOUL")

Turn models into production-ready apps.

- **LangChain & LangGraph** (multi-agent)
- **FastAPI & Flask** (FastAPI & Flask)
- **Vector DBs** with Pinecone or Milvus (Pinecone or Milvus)



THE CAPSTONE PROJECT: "NEURAL-CHEF"

The Ultimate Culinary AI: Build an application that takes a photo of a fridge (Computer Vision), identifies ingredients, and generates a personalized recipe using an LLM—all served via a high-speed FastAPI backend.



WHY CHOOSE THIS TRACK?:

- **Fastest Path to AI:** Python is the #1 language for AI research and industry.
- **Pure Flexibility:** Learn to build, fine-tune, and deploy models from scratch.
- **Modern Stack:** LangChain + PyTorch + FastAPI + Scikit-learn.

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