



6 AI CAREERS. ONE ROADMAP *EACH.*

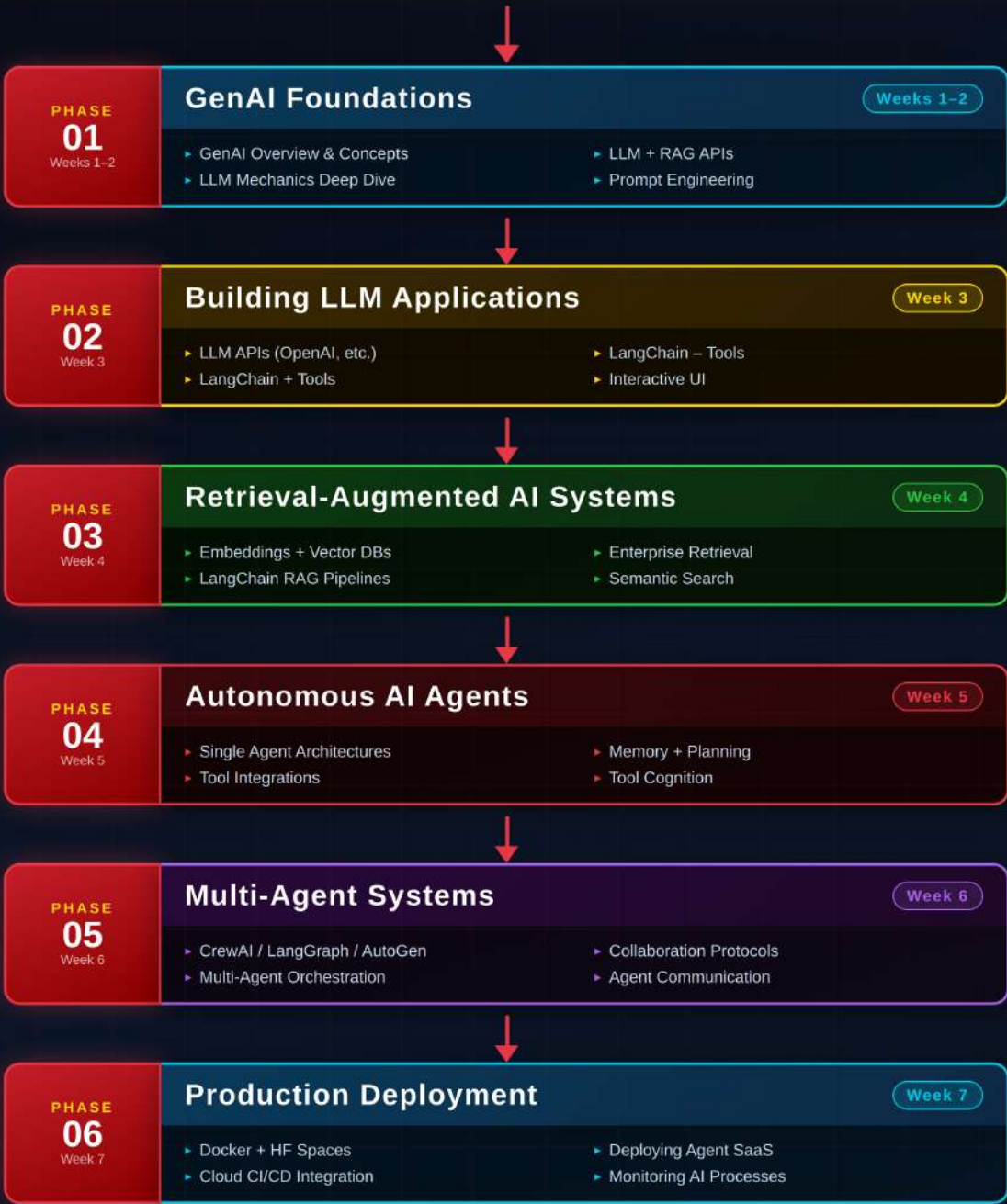
Stop guessing where to start.

Every path is mapped. Every skill is sequenced.



COMPLETE AGENTIC AI BOOTCAMP ROADMAP

◆ Next-Gen AI Engineering · Build Real-World AI Systems ◆



OPTIONAL

Advanced GenAI Engineering

- ◆ LLM Mechanics Deep Dive
- ◆ Fine-Tuning (LoRA)
- ◆ Advanced RAG Systems
- ◆ Multimodal (image, video)

🎯 **Capstone:**

Full GenAI System

🏆 Final Capstone Project
Build a complete multi-agent system from scratch

CAPSTONE 1

▶ **Multi-Agent Product Launch Strategy**

CAPSTONE 2

▶ **Autonomous CRM Assistant**

8 Weeks Core Bootcamp + 2 Weeks Optional Advanced GenAI



ADVANCED GENERATIVE AI BOOTCAMP ROADMAP

FOR ENGINEERS · PRODUCTION LLM SYSTEMS · RAG · FINE-TUNING · MULTIMODAL

24 HOURS · 8 LABS · 3 PROJECTS · ENTERPRISE CAPSTONE

MODULE 01 Session 1

LLM Internals & Prompt Engineering at Scale

- Transformer Architecture Deep Dive
- Temperature, Top-p & Log Probabilities
- ReAct Prompting & Prompt Debugging
- Tokenization & Context Windows
- Chain-of-Thought & Tree-of-Thought
- Hallucination Detection & Benchmarking

LABS: Tokenization & context window experiments · Prompt optimization tests

MODULE 02 Session 2

Advanced RAG Engineering

- Embedding Model Comparison
- Hybrid Search & Reranking Models
- Multi-Document Reasoning
- Chunking Strategies (Semantic, Sliding Window)
- Query Rewriting & Retrieval Evaluation
- FAISS, Pinecone & Chroma at Scale

LABS: Build hybrid search RAG pipeline · Retrieval quality benchmarking

MODULE 03 Session 3

Fine-Tuning LLMs with LoRA & PEFT

- Fine-Tuning vs RAG — When to Use Which
- PEFT Adapters & HuggingFace Transformers
- Training Without Massive Compute
- LoRA & QLoRA — Parameter-Efficient Tuning
- Instruction Tuning & Dataset Preparation
- Evaluation & Domain Adaptation Metrics

LABS: LoRA fine-tune a domain-specific model · PEFT adapter training on custom dataset

MODULE 04 Session 4

Multimodal AI Systems

- Vision-Language Models (GPT-4V, Gemini Vision)
- CLIP Embeddings & Image Retrieval
- Multimodal RAG Systems
- Image + Text Pipeline Architecture
- Document Intelligence (PDFs, Tables, Charts)
- Production Multimodal API Integration

LABS: Build image + text RAG pipeline · Document intelligence extraction system

MODULE 05 Session 5

LLM Evaluation, Safety & Reliability

- Hallucination Detection Methods
- Prompt Benchmarking & Scoring
- Bias Detection & Mitigation
- RAGAS — RAG Evaluation Framework
- Guardrails & Content Safety Layers
- LangSmith Tracing & Observability

LABS: RAGAS evaluation on RAG pipeline · Guardrail implementation with hallucination scoring

MODULE 06 Session 6

Enterprise AI Application Architecture & Deployment

- Production LLM App Architecture Patterns
- Cost Optimization & Rate Limiting
- CI/CD for LLM Applications
- Streaming Responses & Async Processing
- Docker + Cloud Deployment (AWS / Azure)
- Enterprise Knowledge Assistant Design

LABS: Deploy LLM app with Docker · Build enterprise knowledge assistant with full RAG + eval stack

6 TOOLS: OpenAI / Claude · HuggingFace · LangChain · FAISS / Pinecone · LangSmith · Docker

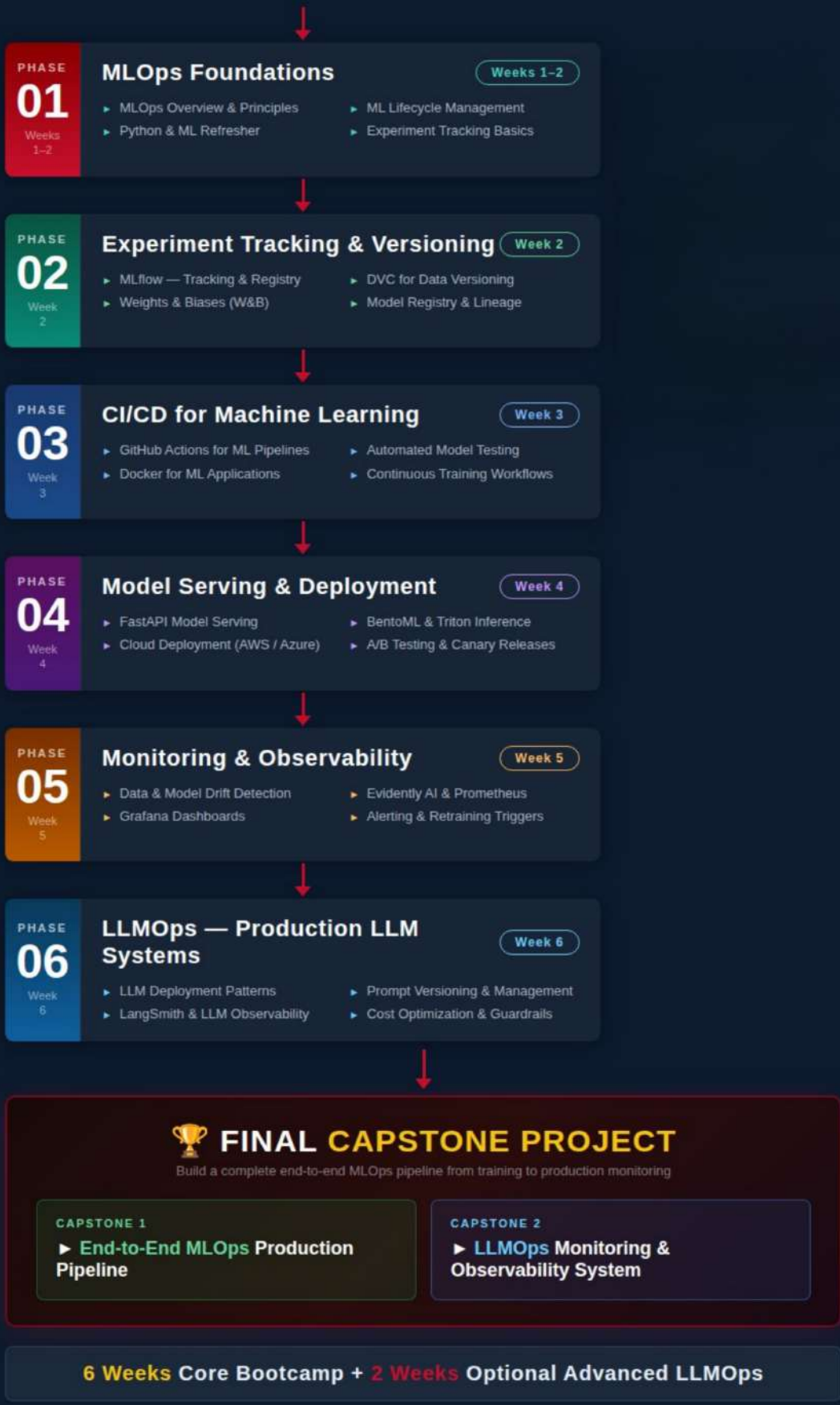
3 PROJECTS + FINAL ENTERPRISE CAPSTONE
End-to-end enterprise AI assistants with RAG, fine-tuning, multimodal capability, evaluation & production deployment

- PROJECT 1** ▶ Advanced RAG Pipeline with Hybrid Search & Reranking
- PROJECT 2** ▶ Domain Fine-Tuned LLM with LoRA & Evaluation
- CAPSTONE** ▶ Enterprise Knowledge Assistant — Deployed & Evaluated

24 Hours · 6 Modules · 8 Hands-On Labs · 3 Projects · Enterprise AI Capstone · 100% Live

COMPLETE MLOPS & LLMOPS BOOTCAMP ROADMAP

◆ PRODUCTION ML ENGINEERING · DEPLOY & MONITOR REAL-WORLD AI SYSTEMS ◆



PHASE 01 **MLOps Foundations** Weeks 1-2

- ▶ MLOps Overview & Principles
- ▶ Python & ML Refresher
- ▶ ML Lifecycle Management
- ▶ Experiment Tracking Basics

PHASE 02 **Experiment Tracking & Versioning** Week 2

- ▶ MLflow — Tracking & Registry
- ▶ Weights & Biases (W&B)
- ▶ DVC for Data Versioning
- ▶ Model Registry & Lineage

PHASE 03 **CI/CD for Machine Learning** Week 3

- ▶ GitHub Actions for ML Pipelines
- ▶ Docker for ML Applications
- ▶ Automated Model Testing
- ▶ Continuous Training Workflows

PHASE 04 **Model Serving & Deployment** Week 4

- ▶ FastAPI Model Serving
- ▶ Cloud Deployment (AWS / Azure)
- ▶ BentoML & Triton Inference
- ▶ A/B Testing & Canary Releases

PHASE 05 **Monitoring & Observability** Week 5

- ▶ Data & Model Drift Detection
- ▶ Grafana Dashboards
- ▶ Evidently AI & Prometheus
- ▶ Alerting & Retraining Triggers

PHASE 06 **LLMops — Production LLM Systems** Week 6

- ▶ LLM Deployment Patterns
- ▶ LangSmith & LLM Observability
- ▶ Prompt Versioning & Management
- ▶ Cost Optimization & Guardrails

FINAL CAPSTONE PROJECT
Build a complete end-to-end MLOps pipeline from training to production monitoring

- CAPSTONE 1** ▶ End-to-End MLOps Production Pipeline
- CAPSTONE 2** ▶ LLMops Monitoring & Observability System

6 Weeks Core Bootcamp + **2 Weeks** Optional Advanced LLMops



COMPLETE GENERATIVE AI BOOTCAMP ROADMAP

• BUILD PRODUCTION-GRADE GENAI APPS · FROM LLMS TO DEPLOYMENT •



FINAL CAPSTONE PROJECTS

Choose your capstone from real-world use cases — deploy a live GenAI app with retrieval and reasoning

CAPSTONE 1

► Intelligent RAG Knowledge Assistant

CAPSTONE 2

► Multi-Modal Content Generation Platform

CAPSTONE 3

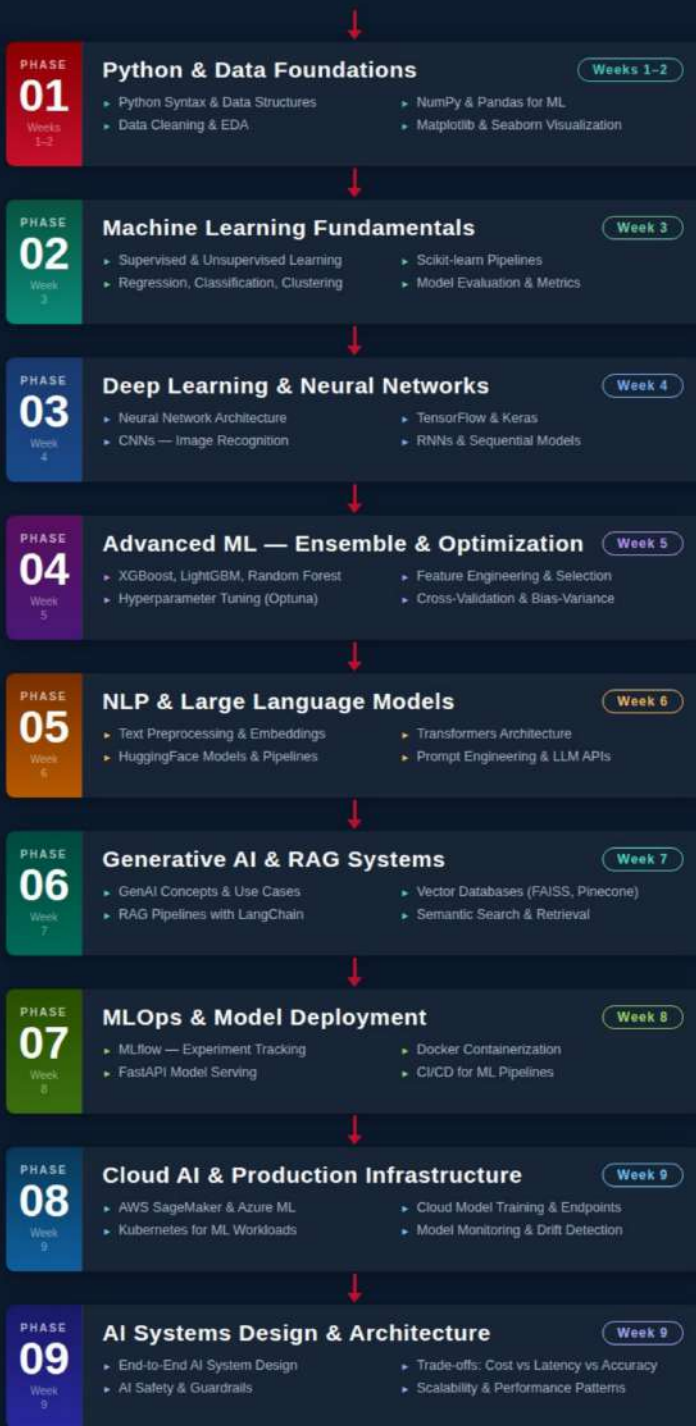
► GenAI SaaS App — Fine-Tuned & Deployed

9 Weeks Core Bootcamp · 72 Hours Live + 2 Weeks Optional Advanced GenAI Engineering



COMPLETE AI & ML ENGINEER BOOTCAMP ROADMAP

• NEXT-GEN AI ENGINEERING · BUILD REAL-WORLD AI & ML SYSTEMS •



FINAL CAPSTONE PROJECT

Build a complete end-to-end AI + ML system from data pipeline to production deployment

CAPSTONE 1

► Intelligent Recommendation Engine with RAG & ML

CAPSTONE 2

► Autonomous ML Pipeline — Train, Deploy & Monitor

10 Weeks Core Bootcamp + 2 Weeks Optional Advanced AI Specialization



COMPLETE DATA ENGINEER BOOTCAMP ROADMAP

MODERN DATA ENGINEERING · BUILD PRODUCTION-GRADE DATA PIPELINES & AI-READY SYSTEMS



FINAL CAPSTONE PROJECTS
Build a complete end-to-end data platform — ingestion, transformation, storage, orchestration & serving

CAPSTONE 1

► Real-Time Analytics Pipeline with Kafka & Spark

CAPSTONE 2

► Enterprise Data Lakehouse — Airflow, dbt & Snowflake

10 Weeks Core Bootcamp · **80 Hours** Live + **2 Weeks** Optional Advanced Data Engineering



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