

EXECUTIVE PROGRAMME • 2026 COHORT

Executive Gen AI and Agentic AI Programme

A premium executive curriculum engineered for leaders building enterprise-grade Generative AI, LLM and Agentic AI capability — from foundations to production-scale deployment.

120+

INDUSTRY SKILLS

11

CORE MODULES

4

CAPSTONE
PROJECTS

1:1

MENTORSHIP

— ABOUT EMPOWERS ACADEMY

Executive education for the applied AI era.

Empowers Academy is a professional AI & technology academy focused on building enterprise-ready talent. Our Executive GenAI & Agentic AI Programme was designed with practitioners, not theorists — combining rigorous engineering foundations with real enterprise deployment practice.



Our Mission

To equip working professionals and leaders with production-grade Generative and Agentic AI capability that translates directly into enterprise impact.



Our Approach

Outcome-led curriculum design, project-based mastery, and mentorship from practicing AI engineers and enterprise architects.



Our Promise

A verifiable skills portfolio, capstone-grade project work, and career services engineered around measurable outcomes.

Why leaders choose Empowers Academy

- 01** Curriculum co-built with practicing GenAI & MLOps engineers across enterprise deployments.
- 02** 120+ hands-on skills spanning Python, ML, DL, GenAI, LLMs, Agentic AI & Cloud.
- 03** Capstone projects modeled on real enterprise AI use cases and delivery patterns.
- 04** Dedicated career services — portfolio, interview and placement support.

15K+

LEARNERS TRAINED

120+

AI SKILLS COVERED

50+

INDUSTRY MENTORS

92%

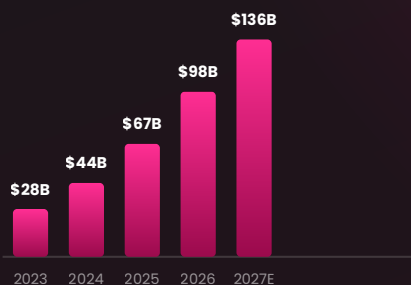
PROGRAMME
COMPLETION

— WHY GENERATIVE AI, WHY NOW

The enterprise AI shift is no longer optional.

Generative and Agentic AI are becoming the default operating layer for enterprise software, decision-making, and knowledge work. Leaders who can architect and govern these systems will define the next decade of competitive advantage.

GLOBAL GENERATIVE AI MARKET (\$B)



Illustrative industry projections, enterprise GenAI spend

78%

of enterprises piloting or scaling GenAI initiatives

1 in 3

enterprise workflows expected to include AI agents by 2027

What executives must now command



Foundation Model Literacy

Understanding LLM capability, cost, and risk trade-offs.



Agentic Workflow Design

Orchestrating autonomous, tool-using AI agents at scale.



Responsible AI Governance

Managing safety, bias, and compliance across AI systems.



Production-Grade Deployment

MLOps, cloud infrastructure, and scalable AI architecture.

— PROGRAMME OVERVIEW

One programme. Full-stack AI mastery.

Structured across 11 progressive modules, the programme takes executives and practitioners from Python foundations to enterprise Agentic AI deployment.

			
Duration 6 Months Executive Track	Format Live Online + Self-Paced Labs	Eligibility Working Professionals, Tech Leaders	Outcome Certification + Portfolio

Programme structure at a glance

PHASE	MODULE	FOCUS	DURATION
01	Python for AI	Programming foundations for AI/ML engineering	2 weeks
02	Machine Learning	Supervised, unsupervised & ensemble learning	3 weeks
03	Deep Learning	Neural networks, CNNs, RNNs, Transformers	3 weeks
04	Generative AI	GANs, VAEs, Diffusion & foundation models	3 weeks
05	LLM Engineering	Prompting, fine-tuning & evaluation	3 weeks
06	Agentic AI	Autonomous agents, planning & tool use	3 weeks
07	RAG & Vector DBs	Retrieval pipelines & vector search	2 weeks
08	MLOps & Cloud AI	CI/CD, deployment & cloud AI platforms	2 weeks
09	Enterprise AI Projects	Applied enterprise use-case delivery	2 weeks
10	Capstone Projects	End-to-end flagship AI system build	3 weeks
11	Career Acceleration	Portfolio, interviews & placement support	Ongoing

Executive Cohort Model

Small peer cohorts of senior professionals, weekend live sessions, and asynchronous depth labs designed around executive schedules.

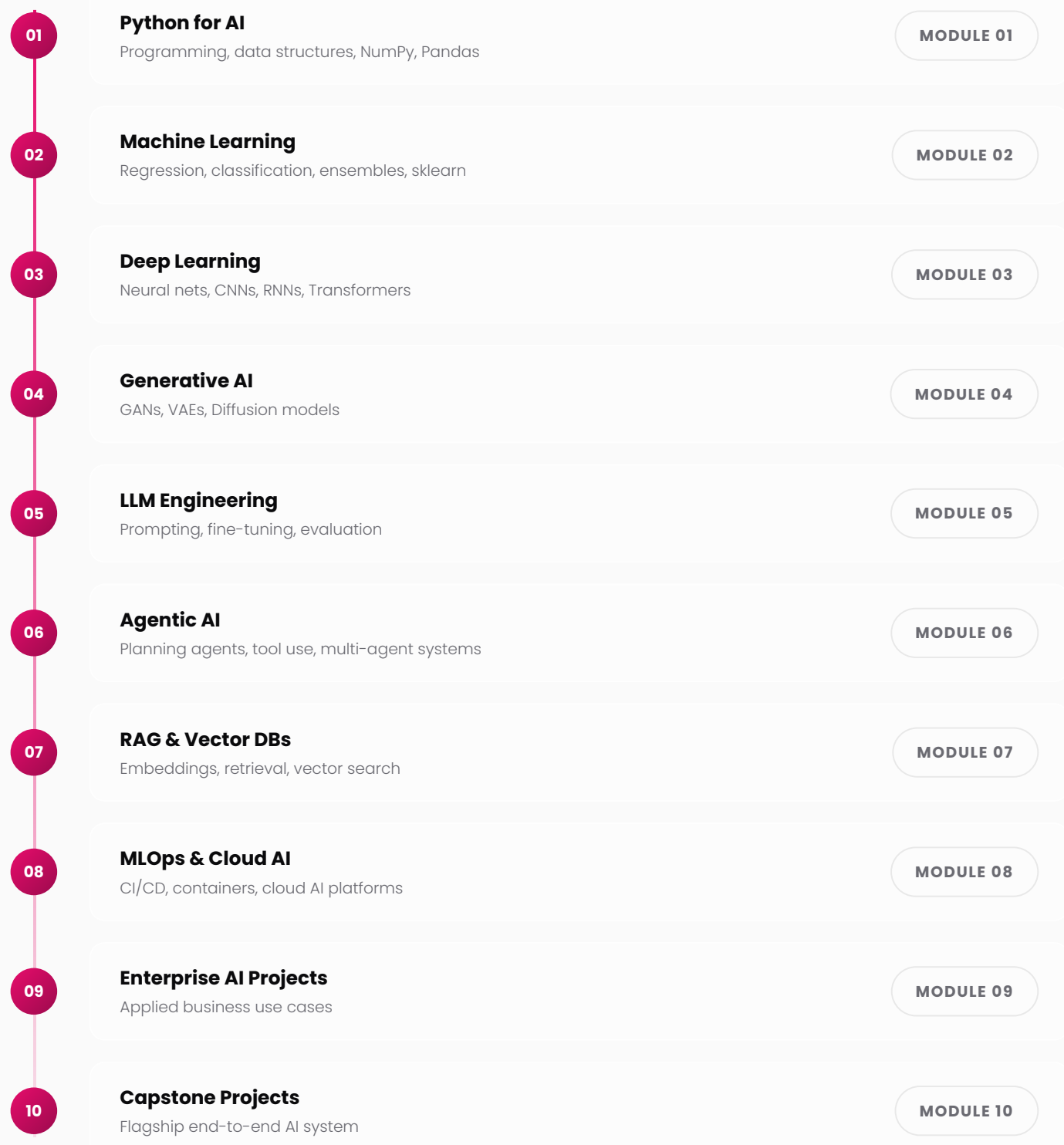
Mentor-Guided Delivery

Every module is anchored by practicing AI engineers, with 1:1 mentorship through the capstone build.

— LEARNING ROADMAP

Your journey from **foundations** to enterprise deployment.

A deliberately sequenced path — each module compounds on the last, culminating in a production-grade Agentic AI capstone.



— MODULE 01 • FOUNDATIONS

Python for AI Engineering

The programming backbone for every AI discipline that follows — from data wrangling to production pipelines.

Core skills you will build

01 Python Syntax & Control Flow

02 Data Structures

03 OOP for AI Systems

04 NumPy Arrays & Vectorization

05 Pandas DataFrames

06 Data Cleaning

07 File & API Handling

08 Exception Handling

09 Virtual Environments

10 Jupyter & Colab Workflows

11 Matplotlib & Seaborn

12 Functional Programming

13 Unit Testing (PyTest)

14 Git & Version Control



Applied Labs

Build data pipelines, REST clients, and vectorized numerical routines used across the AI stack.

Tooling Covered

Python 3.x • NumPy • Pandas • Jupyter • PyTest •
Git & GitHub • VS Code

From script to system



— MODULE 02 • CORE ML

Machine Learning Foundations

Master the statistical and algorithmic core that underpins every modern AI system.

Learning paradigms compared

PARADIGM	APPROACH	EXECUTIVE USE CASE
Supervised Learning	Learns from labeled input-output pairs	Credit risk scoring, churn prediction
Unsupervised Learning	Finds structure in unlabeled data	Customer segmentation, anomaly detection
Reinforcement Learning	Learns via reward-driven trial and error	Dynamic pricing, robotics, agent policies
Ensemble Learning	Combines multiple models for robustness	Fraud detection, forecasting at scale

Core skills you will build

- 01 Linear & Logistic Regression
- 02 Decision Trees & Random Forests
- 03 Gradient Boosting (XGBoost)
- 04 Support Vector Machines
- 05 K-Means & Clustering
- 06 Dimensionality Reduction (PCA)
- 07 Feature Engineering
- 08 Model Evaluation Metrics
- 09 Cross-Validation
- 10 Hyperparameter Tuning
- 11 scikit-learn Pipelines
- 12 Bias-Variance Tradeoff
- 13 Ensemble Methods
- 14 Time Series Forecasting



Applied Focus

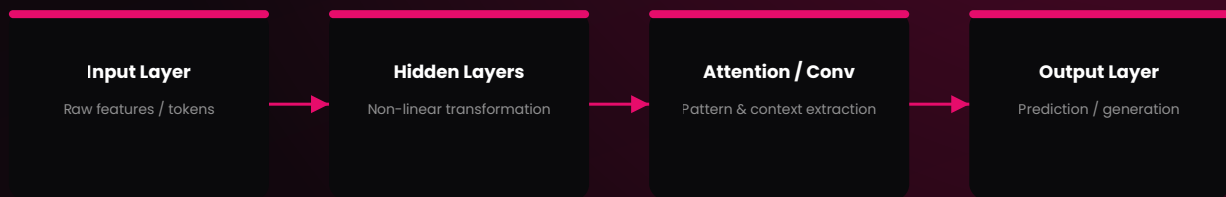
Build and evaluate production ML pipelines using scikit-learn, with rigorous validation and business-metric alignment.

— MODULE 03 • NEURAL SYSTEMS

Deep Learning Architectures

From perceptrons to Transformers — the architectures powering modern AI.

A generalized deep learning pipeline



Core skills you will build

01 Neural Network Fundamentals

02 Backpropagation

03 Convolutional Neural Networks

04 Recurrent Neural Networks

05 LSTMs & GRUs

06 Transformer Architecture

07 Attention Mechanisms

08 Transfer Learning

09 Regularization & Dropout

10 Batch Normalization

11 TensorFlow & PyTorch

12 GPU-Accelerated Training

13 Model Optimization

14 Computer Vision Basics



Frameworks

PyTorch • TensorFlow & Keras • Hugging Face •
CUDA-accelerated training on cloud GPUs.

— MODULE 04 • GENERATIVE SYSTEMS

Generative AI Foundations

Understand and apply the model families generating text, images, audio and structured data.

Generative model families



GANs

Generator-discriminator pairs producing highly realistic synthetic outputs.



VAEs

Probabilistic encoders learning compressed, structured latent representations.



Diffusion Models

Iterative denoising process behind state-of-the-art image & audio generation.

Core skills you will build

01 Generative Adversarial Networks

02 Variational Autoencoders

03 Diffusion Models

04 Autoregressive Models

05 Text-to-Image Generation

06 Foundation Model Landscape

07 Model Fine-Tuning Basics

08 Latent Space Manipulation

09 Synthetic Data Generation

10 Multimodal Generation

11 Prompt-Based Control

12 Ethical & Responsible GenAI



Executive Lens

Evaluate build-vs-buy decisions across foundation model providers, licensing and compute economics.

— MODULE 05 • LANGUAGE SYSTEMS

LLM Engineering

Engineer, evaluate and deploy large language models as dependable enterprise components.

Core skills you will build

01 Prompt Engineering

02 Few-Shot & Chain-of-Thought Prompting

03 Fine-Tuning (LoRA / QLoRA)

04 Instruction Tuning

05 RLHF Fundamentals

06 Tokenization & Embeddings

07 Context Window Optimization

08 LLM Evaluation & Benchmarking

09 Function & Tool Calling

10 LLM API Integration (OpenAI, Anthropic, etc.)

11 Guardrails & Safety Filters

12 Cost & Latency Optimization

13 Structured Output Generation



Prompting to Production

Move from ad-hoc prompting to versioned, tested, and monitored LLM pipelines.



Safety by Design

Embed guardrails, evaluation harnesses and human-in-the-loop review.

Prompt engineering technique spectrum

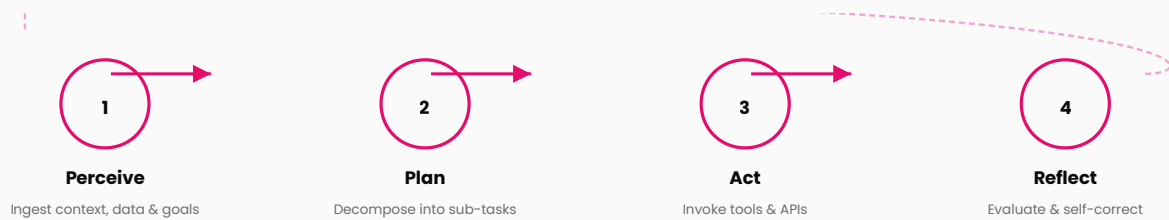
TECHNIQUE	BEST SUITED FOR
Zero-shot Prompting	Simple, well-defined tasks with no examples required
Few-shot Prompting	Tasks needing format or style guidance via examples
Chain-of-Thought	Multistep reasoning & complex problem solving
Retrieval-Augmented Prompting	Grounding responses in enterprise knowledge bases

— MODULE 06 • AUTONOMOUS SYSTEMS

Agentic AI Engineering

Design and orchestrate autonomous, tool-using AI agents that plan, act, and self-correct.

The agentic reasoning loop



Core skills you will build

01 Agent Architecture Design

02 Task Planning & Decomposition

03 Tool & API Calling

04 Multi-Agent Orchestration

05 Memory Systems (Short & Long-Term)

06 ReAct & Reflexion Patterns

07 Autonomous Decision Loops

08 Agent Evaluation & Guardrails

09 LangGraph & Agent Frameworks

10 Human-in-the-Loop Control

11 Agent-to-Agent Communication

12 Goal-Oriented Reasoning



Why It Matters

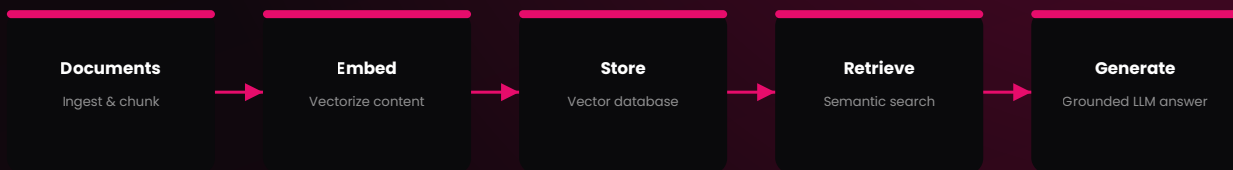
Agentic AI is the fastest-growing enterprise AI category — automating multi-step, tool-using workflows once thought to require humans.

— MODULE 07 • RETRIEVAL SYSTEMS

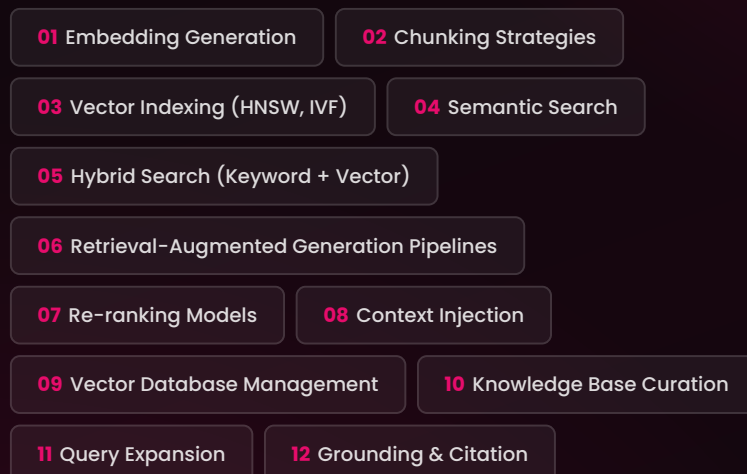
RAG & Vector Databases

Ground LLMs in enterprise knowledge with production-grade retrieval architectures.

The RAG pipeline



Core skills you will build



Vector Database Landscape

Pinecone • Weaviate • Milvus
Chroma • FAISS • Qdrant • pgvector

— MODULE 08 • PRODUCTION SYSTEMS

MLOps & Cloud AI

Deploy, monitor and scale AI systems reliably across enterprise cloud environments.

Cloud AI platform coverage



AWS

SageMaker, Bedrock, Lambda for scalable AI inference.



Azure

Azure AI Foundry & OpenAI Service for enterprise LLM ops.



Google Cloud

Vertex AI pipelines for training & managed deployment.

Core skills you will build

01 CI/CD for ML Pipelines

02 Model Versioning & Registry

03 Containerization (Docker)

04 Kubernetes for AI Workloads

05 Model Monitoring & Drift Detection

06 Feature Stores

07 Experiment Tracking (MLflow)

08 AWS AI Services (SageMaker, Bedrock)

09 Azure AI & OpenAI Service

10 Google Cloud Vertex AI

11 Infrastructure as Code

12 Cost & GPU Resource Optimization

13 API Deployment & Scaling



Reliability First

Build systems that are observable, reproducible, and safe to operate at enterprise scale.

— MODULE 09 • APPLIED DELIVERY

Enterprise AI Projects

Translate AI capability into deployed business outcomes across real enterprise functions.

Representative project patterns



Enterprise Knowledge Copilot

RAG-powered assistant grounded in internal policy & knowledge documents.



Agentic Ops Automation

Multi-agent system automating ticketing, triage & workflow routing.



Business vCard AI Platform

QR-driven digital business card system with secure verification & analytics.



Sales Intelligence Assistant

LLM-powered assistant surfacing insights from CRM & call transcripts.

Core skills you will build

01 Stakeholder Requirement Mapping

02 AI Use-Case Prioritization

03 Business vCard / QR Systems

04 Document Intelligence

05 Customer Support Automation

06 Enterprise Search Assistants

07 Sales & CRM Copilots

08 Compliance & Risk Automation

09 Cross-Functional AI Delivery

10 ROI & Impact Measurement



Business-First AI

Every project is scoped against a measurable business outcome, not just a technical benchmark.

— COMPLETE SKILLS MATRIX

124+ industry skills across 10 competency domains.

A consolidated view of every capability built across the programme — from Python foundations to executive AI governance.

COMPETENCY DOMAIN	COVERAGE	SKILLS
Python & Data Foundations		14 skills
Machine Learning		14 skills
Deep Learning		14 skills
Generative AI		12 skills
LLM Engineering		13 skills
Agentic AI		12 skills
RAG & Vector Databases		12 skills
MLOps & Cloud AI		13 skills
Enterprise AI Delivery		10 skills
Leadership & Governance		10 skills

Leadership & governance skills

01 AI Strategy Formulation

02 Cross-Functional Team Leadership

03 AI Governance & Ethics

04 Vendor & Platform Evaluation

05 Change Management for AI Adoption

06 Executive AI Communication

07 Budgeting for AI Initiatives

08 Data Privacy & Compliance

09 AI Risk Assessment

10 AI Product Roadmapping

124+ TOTAL SKILLS	10 COMPETENCY DOMAINS	11 MODULES	4 CAPSTONES
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— CAPSTONE PROJECTS

Ship real systems, not just **slideware**.

Every cohort concludes with a flagship capstone — architected, built and deployed under mentor guidance, ready for your professional portfolio.



CAPSTONE 01

Enterprise RAG Copilot

Build a production-grade retrieval-augmented assistant grounded in enterprise documents with citation, guardrails and monitoring.

GenAI • RAG • LLM Ops



CAPSTONE 02

Autonomous Multi-Agent Workflow

Design a multi-agent system that plans, delegates and executes a complex business workflow end-to-end.

Agentic AI • Orchestration



CAPSTONE 03

AI-Powered Business Platform

Ship a full-stack AI application (e.g. the Business vCard AI Platform) from architecture to cloud deployment.

Full-Stack • Cloud AI



CAPSTONE 04

Predictive Enterprise Intelligence

Deliver a forecasting & decision-support system combining classical ML with generative insight summaries.

ML • GenAI • MLOps

Capstone Review Board

Present your capstone to a panel of practicing AI engineers & enterprise architects for feedback and certification sign-off.

**LIVE DEMO
DAY**

— CAREER SERVICES

Career acceleration, built in.

Skills alone don't guarantee career outcomes — our career services team works alongside you from day one through your next role.



Portfolio & Resume Studio

Transform capstone work into a hiring-ready AI portfolio and resume.



Mock Interview Practice

Structured technical & case interviews with practicing AI engineers.



1:1 Career Mentorship

Personalized guidance mapped to your career trajectory and goals.



LinkedIn & Personal Brand

Position yourself as a credible AI leader in your professional network.



Placement & Referral Network

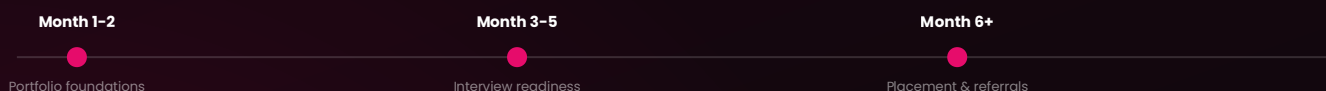
Access to hiring partners across enterprise & AI-native companies.



Alumni Community Access

Lifetime access to a growing network of Empowers Academy AI leaders.

Your career acceleration timeline



CERTIFICATIONS

A credential that signals real capability.

Progressive certification checkpoints validate mastery at every stage, culminating in the Empowers Academy Master Certification.

01

Foundation Certificate

MODULES 01-03

Python, ML & Deep Learning mastery

02

Professional Certificate

MODULES 04-07

Generative AI, LLMs, Agentic AI & RAG

03

Executive Certificate

MODULES 08-10

MLOps, Enterprise Delivery & Capstone

04

Master Certification

FULL PROGRAMME

Complete Executive GenAI & Agentic AI credential

What makes this certification credible



Project-Verified
Backed by a capstone project reviewed by a practitioner panel.



Skills-Mapped
Each certificate maps directly to the 124+ skill competency matrix.



Digitally Verifiable
Shareable, verifiable digital credential for LinkedIn & resumes.



Industry-Recognized
Developed with input from enterprise hiring & technology partners.

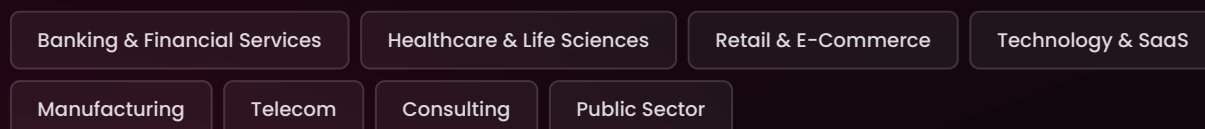
— CAREER OPPORTUNITIES

Where this programme takes **your career.**

Generative and Agentic AI roles are among the fastest-growing and highest-compensated in enterprise technology today.

ROLE	WHAT YOU'LL OWN
Generative AI Engineer	Build & deploy GenAI-powered products
Agentic AI Developer	Design autonomous multi-agent systems
LLM / Prompt Engineer	Engineer & optimize LLM-driven workflows
AI Solutions Architect	Architect enterprise-scale AI systems
MLOps Engineer	Operate & scale production AI pipelines
AI Product Manager	Lead AI-driven product strategy
AI Transformation Lead	Drive enterprise-wide AI adoption
Applied ML Scientist	Research & deploy applied ML models

Industries actively hiring AI talent



35%+

AVG. COMPENSATION UPLIFT*

8+

CAREER PATHWAYS

*Illustrative industry benchmark for professionals transitioning into applied GenAI & Agentic AI roles.

— CONTACT & ADMISSIONS

Begin your executive AI transformation.

Applications for the next Executive GenAI & Agentic AI cohort are open. Limited seats to preserve mentorship quality.

1

Apply Online

Submit your application via empowersacademy.com

2

Screening Call

Brief conversation to align on goals & fit

3

Offer & Enrollment

Receive your offer and secure your cohort seat

4

Cohort Kickoff

Begin Module 01 with your executive cohort

Get in Touch

- Website — empowersacademy.com
- Admissions — admissions@empowersacademy.com
- Programme — Executive GenAI & Agentic AI
- Format — Live Online + Self-Paced Labs

Ready to lead the AI shift?

Visit empowersacademy.com to apply for the next Executive GenAI &

APPLY NOW →