

Generative AI & Agentic AI

Duration: 3 Months (Mon–Fri, ~120 Hours)

Mode: Live Online / Classroom

Tools & Technologies: OpenAI APIs, LangChain, HuggingFace, TensorFlow, PyTorch

Syllabus

Week 1

- Introduction to Generative AI
- GANs basics
- Assignment at end of week

Week 2

- GAN architectures
- Hands-on with TensorFlow/PyTorch
- Assignment at end of week

Week 3

- Intro to LLMs (GPT, LLaMA, Claude)
- Assignment at end of week

Week 4

- Prompt engineering fundamentals
- Assignment at end of week
- Mock Interview 1

Week 5

- LangChain basics
- Building simple AI agents
- Assignment at end of week

Week 6

- Agentic workflows in enterprises
- Assignment at end of week

Week 7

- Advanced LLM tuning
- Assignment at end of week

Week 8

- Case study: AI Copilot
- Assignment at end of week

Week 9

- Capstone GenAI project
- Mock Interview 2
- Assignment at end of week

Week 10

- Final project presentation & viva
- Assignment at end of week

Week 11

- Career preparation & portfolio building
- Assignment at end of week

Week 12

- Wrap-up & feedback
- Assignment at end of week

Learning Outcomes

- Understand GANs and LLMs
- Implement prompt engineering
- Build AI agents with LangChain
- Apply GenAI in business workflows
- Deliver a real-world GenAI capstone project