

Advanced Track

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

AI Strategy, Business & Ethics

Duration: 2 Months (Mon–Fri, ~90 Hours)

Mode: Live Online / Classroom

Tools & Technologies: Case Studies, AI Frameworks (XAI, Responsible AI)

Syllabus

Week 1

- AI for business strategy overview

- Assignment at end of week

Week 2

- AI in Finance, Healthcare, Retail
- Assignment at end of week

Week 3

- Predictive vs Prescriptive analytics
- Assignment at end of week

Week 4

- Explainable AI (XAI) frameworks
- Assignment at end of week
- Mock Interview 1

Week 5

- AI fairness and bias
- Assignment at end of week

Week 6

- AI governance and compliance
- Assignment at end of week

Week 7

- Case study: Responsible AI in practice
- Assignment at end of week

Week 8

- Final strategy presentation
- Mock Interview 2
- Assignment at end of week

Learning Outcomes

- Understand AI as a business enabler
- Differentiate predictive and prescriptive AI
- Apply Explainable AI frameworks
- Recognize AI bias and ensure fairness
- Develop ethical AI strategies for enterprises

Capstone Project in AI

Duration: 2 Months (Mon–Fri, ~90 Hours)

Mode: Live Online / Classroom

Tools & Technologies: Python, TensorFlow, PyTorch, Cloud platforms

Syllabus

Week 1

- Project ideation and dataset selection
- Assignment at end of week

Week 2

- Data cleaning and preprocessing
- Assignment at end of week

Week 3

- Model training and evaluation
- Assignment at end of week

Week 4

- Iteration and optimization
- Mock Interview 1
- Assignment at end of week

Week 5

- Deployment on cloud platforms
- Assignment at end of week

Week 6

- API creation and integration
- Assignment at end of week

Week 7

- Final project development
- Assignment at end of week

Week 8

- Project presentation & viva
- Mock Interview 2
- Assignment at end of week

Learning Outcomes

- Design and execute a real-world AI project

- Clean and preprocess large datasets
- Train and optimize ML/DL models
- Deploy solutions on cloud platforms
- Present results professionally