



Certificate Program In Software Architecture - Logistics

Duration – 80 Hours

Program Description

This program equips software developers with the skills to design, build, and integrate Generative AI solutions tailored for the logistics industry. Participants will explore the fundamentals of Generative AI, apply it to real-world logistics problems such as demand forecasting, route optimization, warehouse automation, and customer support, and gain hands-on expertise in integrating AI models into logistics applications.

Learning Goals

- Understand the foundations of Generative AI and Large Language Models (LLMs)
- Learn how to fine-tune and adapt models for logistics-specific use cases
- Build AI-powered solutions for forecasting, scheduling, and planning
- Use Generative AI for automating documentation, reporting, and customer interactions
- Explore multimodal AI applications (text, images, and structured logistics data)
- Gain hands-on skills in deploying Generative AI models into logistics software stacks
- Apply ethical and responsible AI principles in logistics automation

Course Topics

- Introduction to Generative AI & Logistics Applications
- Large Language Models (LLMs) – Foundations & Fine-Tuning for Logistics
- Prompt Engineering & Customization for Logistics Data
- AI for Demand Forecasting, Route Optimization & Scheduling
- Automating Warehouse Operations & Documentation with Generative AI
- Multimodal Generative AI (Text, Image, Data) for Logistics
- Integrating Generative AI into Logistics Software Systems (APIs, Microservices)
- Responsible AI in Logistics – Bias, Ethics & Compliance
- Capstone Project: Build a Generative AI Solution for a Logistics Use Case