UNext

Advance Prompt Engineering

Duration – 40 Hours

Program Description

This training covers the fundamentals of prompt engineering, including types, elements, and optimization techniques for efficiency and accuracy. It explores advanced topics such as instruction tuning, multi-model prompt design, specific use cases, and fine-tuning strategies, alongside hands-on experience with tools like GitHub Copilot and Azure.

Additionally, it delves into agentic AI, jailbreak techniques, and guardrails to ensure secure and effective AI deployment.

Learning Outcomes

➢ Learn the fundamentals, types, and best practices for designing efficient, high-quality prompts while optimizing token usage.
➢ Gain hands-on experience with instruction tuning, multi-model prompt design, and specific applications, including risk modeling and automation.
➢ Understand jailbreak techniques, agentic AI, and guardrail implementation to develop safe, scalable, and reliable AI-powered solutions

Course Topics

❖ Introduction to Prompt Engineering
❖ Types & Structure of Prompts
❖ Prompt Optimization
❖ Token Efficiency
❖ Instruction Tuning
❖ Debugging & Troubleshooting Prompts
❖ Multi-Model Prompt Design
❖ LLM Architectures & Fine-Tuning
❖ Cloud & Agentic AI
❖ Security & Compliance in AI

Modules can be customized to suit client's specific needs and duration accordingly