Implementors



Gen Al for Al Engineers

Duration – 24 Hours

Program Description

This program equips developers with the foundational and advanced concepts of Generative AI, enabling them to build, fine-tune, and deploy AI-driven applications effectively. Participants will explore generative models, transformers, Variational Autoencoders (VAEs), and Generative Adversarial Networks (GANs).

The course delves into essential topics like retrieval-augmented generation (RAG), prompt engineering, ethical considerations, and explainable AI techniques. Additionally, it covers practical applications such as fraud detection, domain-specific fine-tuning, and addressing deployment challenges, monitoring, and maintenance of AI systems.

Learning Outcomes

- Learn the fundamentals and working principles of generative Al models
- Gain insights into transformer-based architectures and their role in modern AI
- Understand the mechanisms behind VAEs and GANs for data generation.
- Design effective prompts to optimize Al-generated outputs.
- Understand how RAG enhances generative AI capabilities.
- > Utilize generative models to detect and prevent fraudulent activities.
- Adapt pre-trained models to specialized domains for improved accuracy.
- > Recognize and mitigate bias, fairness, and responsibility issues in Al.
- Learn best practices for deploying generative AI models at scale.
- Implement robust monitoring and maintenance strategies for Al applications.
- > Enhance model transparency and interpretability for better trust and accountability

Course Topics

- Introduction to Generative Models
- Introduction to Transformers
- Variational Autoencoders (VAEs)
- Introduction to Generative Adversarial Networks (GANs)
- Introduction to Prompt Engineering
- ❖ What is RAG (Retrieval Augmented Generation)
- Fraud Detection Using Generative Models.
- * Fine Tune existing LLMs on Domain documents
- Ethical Considerations
- Deployment Challenges
- Monitoring and Maintenance
- Explainable AI techniques.