AWS GenAI Training

COURSE CONTENT

About Multisoft

Train yourself with the best and develop valuable in-demand skills with Multisoft Systems. A leading certification training provider, Multisoft collaborates with top technologies to bring world-class one-on-one and certification trainings. With the goal to empower professionals and business across the globe, we offer more than 1500 training courses, which are delivered by Multisoft's global subject matter experts. We offer tailored corporate training; project Based Training, comprehensive learning solution with lifetime e-learning access, after training support and globally recognized training certificates.

About Course

AWS GenAI Training by Multisoft Systems is designed to help professionals understand, build, and deploy generative AI solutions using AWS's powerful and scalable cloud ecosystem. This program focuses on practical, real-world implementation of generative AI rather than just theoretical concepts, enabling learners to confidently apply their skills in enterprise environments.

Module 1: Introduction to Generative AI and AWS GenAI Landscape

- ✓ Overview of Generative AI and its business impact
- ✓ Difference between traditional AI, ML, and GenAI
- ✓ GenAI use cases across industries
- ✓ AWS approach to Generative AI solutions

Module 2: Foundations of Large Language Models (LLMs)

- ✓ Understanding foundation models and LLMs
- ✓ Tokens, embeddings, context windows, and inference
- ✓ Model capabilities, limitations, and risks
- ✓ Responsible and ethical AI considerations

Module 3: AWS Services for Generative AI

- ✓ Overview of AWS GenAI ecosystem
- ✓ Using AWS-managed AI and ML services
- ✓ Model hosting, orchestration, and inference concepts
- ✓ Integrating GenAI into cloud-native applications

Module 4: Prompt Engineering and Model Interaction

- ✓ Prompt design techniques and patterns
- ✓ Zero-shot, few-shot, and chain-of-thought prompting
- ✓ Prompt optimization for accuracy and performance
- ✓ Handling hallucinations and response validation

Module 5: Building GenAI Architectures on AWS

- ✓ Designing scalable GenAI solution architectures
- ✓ Data pipelines for GenAI workloads

- ✓ API-based GenAI integration
- ✓ Event-driven and serverless GenAI workflows

Module 6: Security, Governance, and Responsible AI

- ✓ Data privacy and access control in GenAI systems
- ✓ Security best practices for AI workloads
- ✓ Bias, compliance, and governance frameworks
- ✓ Monitoring and auditability of GenAI applications

Module 7: Cost Optimization and Performance Management

- ✓ Understanding GenAI cost drivers on AWS
- ✓ Optimizing inference and storage costs
- ✓ Performance tuning strategies
- ✓ Scaling GenAI applications efficiently

Module 8: Real-World Use Cases and Industry Scenarios

- ✓ GenAI for chatbots and virtual assistants
- ✓ Content generation and summarization
- ✓ Code assistance and automation
- ✓ Enterprise knowledge management solutions

Module 9: Future Trends and Best Practices

- ✓ Emerging trends in Generative AI
- ✓ GenAI adoption strategies for enterprises
- ✓ Best practices for long-term scalability
- ✓ Preparing for advanced GenAI and AI certifications