Introduction to Agentic AI

Duration: 2 Days Course Code: GK840006

Overview:

You'll explore how agentic AI differs from traditional and generative AI, examine the essential building blocks of agentic systems

This course provides a practical introduction to autonomous AI systems that can pursue goals, make decisions, use tools, and perform multi-step tasks with varying levels of autonomy. Participants will explore how Agentic AI differs from traditional AI and generative AI while gaining an understanding of the core components of agentic systems, including models, goals, instructions, tools, memory, state management, and decision-making processes.
The course examines both single-agent and multi-agent architectures and demonstrates how they can be applied to solve complex business challenges. In addition, learners will develop an understanding of the foundational paradigms, architectural frameworks, and operational practices required to design, deploy, and manage AI agents. The course also covers the key aspects of operating AI agents in production environments, including testing, observability, AgentOps, security, governance, risk management, and human oversight.

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Target Audience:

This introductory-level course is geared for non-technical business professionals seeking to harness the power of Artificial General Intelligence (AGI) to improve their productivity, enhance decision-making, and drive innovation within their organizations. This course is valuable for a wide range of industries and job roles.

Some roles that might benefit from attending include:
- Technical Professionals
- AI Practitioners
- Business Analysts
- Software Developers & Architects
- Technology Managers
- Security, Governance and Compliance Professionals

Objectives:

- **This course combines engaging instructor-led presentations and useful demonstrations with valuable hands-on labs and engaging group activities. Throughout the course you'll learn how to:**
- Distinguish Agentic AI from Other AI Paradigms: Define the core characteristics of agentic AI and differentiate autonomous agents from traditional machine learning models, generative AI applications, copilots, and deterministic automated workflows.
- Architect and Deconstruct AI Agent Core Components: Identify and integrate the critical structural pillars of an agent—including foundation models, goal frameworks, system instructions, tools, memory systems, and state management.
- Design Advanced Reasoning, Planning, and Prompting Mechanisms: Engineer prompts and behavioral instructions that guide autonomous planning and decision-making, enabling agents to decompose goals, use external tools, and execute complex, multi-step tasks.
- Implement Multi-Agent Collaboration and Orchestration Patterns: Compare common agentic system architectures and design frameworks where multiple specialized agents collaborate, delegate tasks, and coordinate activities to solve distributed problems.
- Deploy, Observe, and Evaluate Enterprise Solutions: Identify high-value enterprise use cases, determine appropriate levels of autonomy, and systematically evaluate performance using execution trajectories, tool interaction metrics, reliability, cost, and modern AgentOps observability practices.
- Secure and Govern Autonomous Systems: Mitigate security risks—such as prompt injection, excessive permissions, and tool misuse—by applying robust guardrails, least-privilege access controls, human-in-the-loop interfaces, and responsible AI governance frameworks.

Prerequisites:

Testing and Certification

This course doesn’t require a technical background, however in order to be successful in this course you need possess:

- Basic computer literacy, and a fundamental understanding of business processes (such as marketing, data analysis, project management, or customer support, etc.)
- Basic data manipulation skills: While not required, a basic understanding of working with data, such as using spreadsheets (e.g., Microsoft Excel or Google Sheets) for data organization and simple calculations, would be beneficial for participants.
- Understanding agentic AI concepts, architectures, and practical applications.
- A general understanding of AI and Generative AI is helpful but not required.

None

Follow-on-Courses:

You’ll explore how agentic AI differs from traditional and generative AI, examine the essential building blocks of agentic systems

Further Information:

For More information, or to book your course, please call us on Head Office Tel.: +974 40316639

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