

Agentic AI Foundations On-Demand

Course Description

Course Duration

1.5 Hours

Overview

The Agentic AI Foundations course introduces learners to the core concepts, architecture, and responsible design of Agentic AI systems. This course explains what Agentic AI is, how agents think and act, and how they differ from traditional AI models. Through real-world examples and guided scenarios, learners will explore how agents perceive information, make decisions, execute tasks, and improve through feedback. The course also covers the architecture and frameworks used to build scalable, production-ready agents, as well as essential principles for developing safe, secure, and trustworthy Agentic AI.

Who Should Attend

This course is intended for:

- AI Developers & Engineers
- Students in AI/ML (Undergraduate, Graduate, Early-Career)
- Data Scientists & ML Engineers
- Solution & Enterprise Architects
- Product Managers / Product
- IT Professionals (Cloud, Platform, DevOps, SRE)
- Compliance, Risk & Governance Stakeholders
- Business Analysts & Process Owners
- Technical Team Leads / Engineering Managers

Prerequisite Knowledge/Skills

Learners should have:

- Completion of Dell Generative AI Foundations (ESDTFD08243).
- Familiarity with AI training modules and basic machine learning concepts.
- Exposure to AI certification programs or equivalent professional background.

Course Objectives

DELL Technologies

1 Dell Way
Round Rock Texas 78682

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Upon successful completion of this course, participants should be able to:

- Explain the fundamentals and purpose of Agentic AI.
- Describe how Agentic AI thinks, acts, and learns.
- Identify key architecture layers and their roles.
- Compare common Agentic AI frameworks.
- Recognize safety, security, ethics, and governance needs.
- Analyze where Agentic AI adds value in real use cases.

Course Outline

- Module 1: Getting Started with Agentic AI
 - Introduction
 - What is Agentic AI?
 - Characteristics of Agentic AI
 - What is an Agent in Agentic AI?
 - Business Use Cases of Agentic AI
- Module 2: How Agentic AI Thinks and Acts
 - The Process of Thinking and Action
 - Understanding Thinking and Acting with Use Case
- Module 3: Agentic AI - Architecture and Frameworks
 - Overview of Agentic AI Architecture
 - Architecture Layers: Use Case
 - What is Agentic AI Framework
- Module 4: Essentials of Responsible and Trustworthy Agentic AI
 - Understanding Risk in Agentic AI
 - Safety in Agentic AI
 - Security in Agentic AI
 - Ethics & Bias Awareness
 - Compliance & Governance in Agentic AI

What You'll Learn

- Understand what Agentic AI is and the different types of agents.

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- Explain how Agentic AI gathers information, reasons, acts, and improves through feedback.
- Interpret the structure and components of Agentic AI architecture.
- Compare frameworks used to build, test, and deploy agentic systems.
- Identify concerns related to safety, security, bias, ethics, and compliance.
- Define responsible AI practices to support trustworthy Agentic AI development.
- Recognize how Agentic AI can create value in practical business scenarios.

Skill Level

- Intermediate

Certification Alignment

- <https://learning.dell.com/content/dell/en-us/home/certification-overview.html>

Next Recommended Course

- NA

Course Delivery Modes and Product Version Information

Refer to the **Product Version Description** document for a list of Delivery Modes and product versions covered by this course.

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