Developing in Agentic AI Systems

GH-600T00-A

Course code	GH-600T00-A
Duration	1 day
Level	Intermediate
Product	GitHub
Role	AI Engineer, Developer, DevOps Engineer, App Maker, Solution Architect
Subject	Application development; Artificial intelligence
Related certification	GitHub Certified: Agentic AI Developer

Overview

This course builds practical skills for developing, deploying, and managing agentic AI systems within GitHub-based software development workflows. It covers agent architecture, tools and environments, memory and state, evaluation, governance, guardrails, and multi-agent coordination using GitHub as a system of record and control plane.

Audience profile

Professionals who operate, integrate, supervise, and govern AI agents in production-grade software development workflows. Learners typically work with architects, platform and DevOps engineers, developers, product managers, and security engineers.

Prerequisites

- A GitHub account
- Basic understanding of AI fundamentals
- Understanding of repositories, branches, and pull requests
- General knowledge of CI/CD concepts
- Experience with the SDLC and GitHub workflows
- Experience with coding agents such as GitHub Copilot, MCP servers, and agent customization is recommended

Course syllabus

Developing in Agentic AI Systems Part 1 of 2

- Foundations of Agentic AI in GitHub
- Designing Agent Architecture and SDLC Integration
- Tooling, MCP, and Agent Execution Environments

Developing in Agentic AI Systems Part 2 of 2

- Multi-Agent systems and orchestration
- Memory, State, and Evaluation
- Governance, guardrails, and operations

Related certification

GitHub Certified: Agentic AI Developer

Official Microsoft Learn source

https://learn.microsoft.com/en-us/training/courses/gh-600t00