
GH-300T00-GitHub Copilot

Overview

Course Duration: 1 Day

About This Course

This course explores the use of AI in the context of GitHub Copilot, a generative AI tool for developers. It equips users with the knowledge and skills to use Copilot effectively while mitigating potential ethical and operational risks associated with AI usage.

Audience Profile

- **AI Developers and Engineers:** Professionals involved in creating and deploying AI systems who need to understand the ethical implications and governance frameworks.
- **Data Scientists and Analysts:** Individuals who work with data and AI models, focusing on ensuring transparency, fairness, and accountability in their work.
- **Business Leaders and Managers:** Decision-makers who oversee AI projects and need to implement responsible AI practices within their organizations.
- **Policy Makers and Regulators:** Those responsible for creating policies and regulations around AI usage, ensuring that AI systems are developed and used ethically and safely.

Course Outline

Module 1: GitHub Copilot Fundamentals Part 1 of 2

Explore the fundamentals of GitHub Copilot and its potential to enhance productivity and foster innovation for both individual developers and businesses. Discover how to implement it within your organization and unleash its power for your own projects.

Module 2: GitHub Copilot Fundamentals Part 2 of 2

Explore the fundamentals of GitHub Copilot and its potential to enhance productivity and foster innovation for both individual developers and businesses. Discover how to implement it within your organization and unleash its power for your own projects.

- Building applications with GitHub Copilot agent mode
- Accelerate development with GitHub Copilot coding agent
- Introduction to MCP Server
- Leveling up code reviews and pull requests with GitHub Copilot
- Using GitHub Copilot with JavaScript
- Using GitHub Copilot with Python

Prerequisites

- Basic understanding of GitHub fundamentals
- A GitHub account and a fundamental understanding of GitHub Copilot
- GitHub account with Copilot Pro, Copilot Pro+, Copilot Business, or Copilot Enterprise
- Repositories hosted on GitHub (agent does not work on non-GitHub hosts)
- Basic familiarity with issues, pull requests, Actions, and repository rulesets
- Visual Studio Code or another editor that supports MCP integration
- If you're a member of an organization or enterprise with a Copilot Business or Copilot Enterprise plan, the "MCP servers in Copilot" policy must be enabled in order to use MCP with Copilot. (Optional)
- A GitHub Personal Access Token (PAT) for advanced setup and permissions control.
- Docker installed if you plan to experiment with a local server setup for hands-on control.

- GitHub Copilot enabled on your account (Copilot Pro, Copilot Pro+, Business, or Enterprise plan recommended for full code review features).
- Basic familiarity with pull requests and code reviews-creating a PR, leaving comments, and merging changes.
- Basic understanding of JavaScript, like variables and conditionals.
- Ability to use Git and GitHub for version control.
- A GitHub Account with an active subscription for GitHub Copilot is required for either your personal GitHub account or a GitHub account managed by an organization or enterprise. For learning purposes, you should find the Copilot Free option with usage limits to be sufficient.
- Basic understanding of Python and text editors.
- Basic comprehension of Git and GitHub Fundamentals. Particularly, running basic git commands like `git add` and `git push`.
- A GitHub Account with an active subscription for GitHub Copilot is required for either your personal GitHub account or a GitHub account managed by an organization or enterprise. For learning purposes, the Copilot Free option with usage limits should be sufficient.