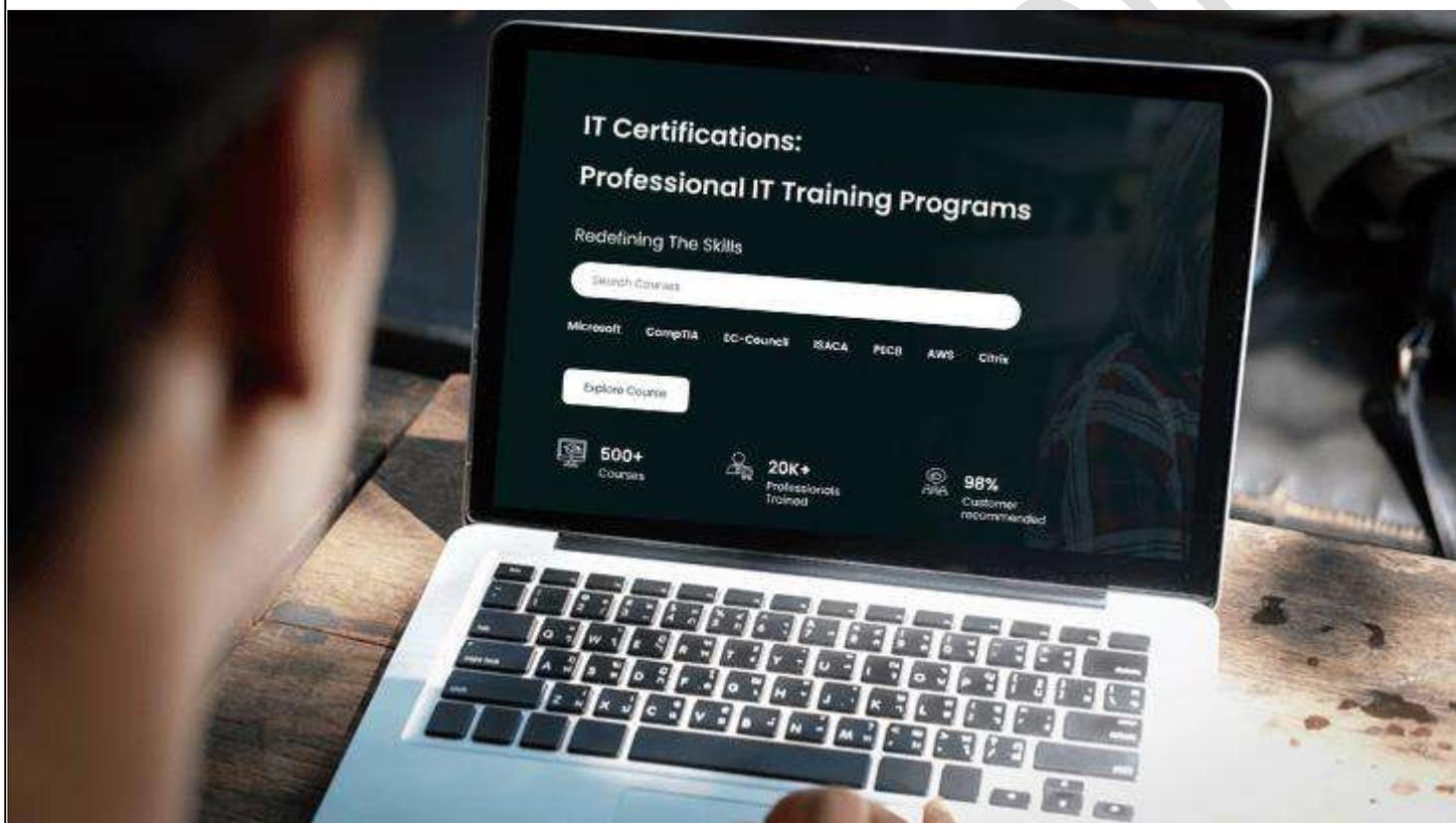




Redefining The Skills



GH-300T00: GitHub Copilot Training

DURATION: 1 DAY

Course Overview

GH-300: GitHub Copilot delivers an in-depth understanding of integrating AI-assisted coding into modern development workflows. Participants learn to configure Copilot, craft effective prompts, and leverage advanced features such as Copilot Chat and command-line interactions. The curriculum emphasizes responsible AI usage to ensure code generation meets ethical and professional standards. By exploring Copilot's applications across multiple development stages and environments, learners gain the skills to boost productivity while maintaining high-quality coding practices.

Who Should Attend This Course?

- AI Engineer
- Data Scientist
- Data Analyst
- Business Managers

What you will learn

- Understand and apply principles of responsible AI usage.
- Configure and customize GitHub Copilot for optimal performance.
- Craft effective prompts to enhance code suggestions.
- Utilize advanced Copilot features, including chat and command-line interactions.
- Develop unit tests and integrate Copilot into testing workflows.
- Differentiate between Copilot plans: Individual, Business, and Enterprise.
- Implement best practices for managing and customizing Copilot in various environments

Curriculum

Module 1: GitHub Copilot Fundamentals Part 1 of 2

Responsible AI with GitHub Copilot

- Mitigate AI risks
- Microsoft and GitHub's six principles of responsible AI

Introduction to GitHub Copilot

- GitHub Copilot, your AI pair programmer
- Interact with Copilot
- Set up, configure, and troubleshoot GitHub Copilot
- Exercise - Develop with AI-powered code suggestions by using GitHub Copilot and VS Code

Introduction to prompt engineering with GitHub Copilot

- Prompt engineering foundations and best practices
- GitHub Copilot user prompt process flow
- GitHub Copilot data
- GitHub Copilot Large Language Models (LLMs)

Using advanced GitHub Copilot features

- Advanced GitHub Copilot features
- Exercise - Set up GitHub Copilot to work with Visual Studio Code
- Applied GitHub Copilot techniques

- Exercise - Update a web API with GitHub Copilot

GitHub Copilot Across Environments: IDE, Chat, GitHub.com, and Command Line Techniques

- Code completion with GitHub Copilot
- GitHub Copilot Chat
- GitHub Copilot on GitHub.com
- GitHub Copilot for the Command Line

Management and customization considerations with GitHub Copilot

- Explore GitHub Copilot plans and their associated management and customization features
- Explore contractual protections in GitHub Copilot and disabling matching public code
- Manage content exclusions
- Troubleshoot common problems with GitHub Copilot

Module 2: GitHub Copilot Fundamentals Part 2 of 2

Developer use cases for AI with GitHub Copilot

- Boost developer productivity with AI
- Align with developer preferences
- AI in the Software Development Lifecycle (SDLC)
- Understand limitations and measure impact

Develop unit tests using GitHub Copilot tools

- Examine the unit testing tools and environment
- Create unit tests using the Generate Tests smart action
- Create unit tests using Inline Chat
- Create unit tests using Chat view modes
- Exercise - Develop unit tests using GitHub Copilot

Introduction to GitHub Copilot Business

- About GitHub Copilot for Business
- GitHub Copilot for Business use cases and customer stories
- How to get started with GitHub Copilot for Business

Introduction to GitHub Copilot Enterprise

- About GitHub Copilot Enterprise
- How to get started

Using GitHub Copilot with JavaScript

- What is GitHub Copilot
- Exercise - Set up GitHub Copilot to work with Visual Studio Code
- Use GitHub Copilot with JavaScript
- Exercise - Update a JavaScript portfolio with GitHub Copilot

Using GitHub Copilot with Python

- What is GitHub Copilot?
- Exercise - Set up GitHub Copilot to work with Visual Studio Code
- Use GitHub Copilot with Python
- Exercise - Update a Python web API with GitHub Copilot

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