Get started with AI-assisted development Training

Duration: **1 Day**

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Overview

This {*training} provides a **comprehensive guide** to speeding up application development with **GitHub Copilot and GitHub Copilot Chat** in a Visual Studio Code environment. Participants will learn to:

- Enhance coding efficiency with AI-powered tools
- Generate documentation and explanations
- Develop unit tests
- Implement code improvements

Through hands-on labs and a guided project, learners will gain the skills to**effectively integrate GitHub Copilot into real-world workflows**.

Prerequisites

- Active GitHub Copilot subscription (personal or organizational)
- 1+ year of coding experience
- Experience building C# apps in Visual Studio Code with the C# Dev Kit extension

Who Should Attend

- Experienced developers aiming to increase productivity with AI tools
- Software engineers integrating GitHub Copilot into workflows
- Technical professionals improving code quality and maintainability

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What You Will Learn

By the end of this {*training}, you will have gained knowledge and skills in the following areas:

- Understand GitHub Copilot and Copilot Chat features & benefits
- Install and configure Copilot extensions in VS Code
- Generate code documentation and explanations
- Develop new code features with AI assistance
- Write unit tests for code reliability
- Implement improvements in quality, security, and performance
- Apply Copilot tools in a guided project

Outline

Module 1: Get Started with GitHub Copilot

- Introduction to Copilot tools (GitHub, OpenAI, Microsoft)
- Installing and configuring VS Code extensions
- Exploring autocomplete & AI assistance

Module 2: Documentation with Copilot

- Using “document” and “explain” features
- Generating inline & project documentation
- Documentation challenge

Module 3: Developing Code Features

- Writing code with line completions and Inline Chat
- Code creation challenges
- Converting code between languages

Module 4: Developing Unit Tests

- Overview of unit testing tools
- Writing unit tests with Copilot Chat
- Scenario-based testing challenge

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Module 5: Code Improvements with Copilot

- Improving code quality, reliability & performance
- Enhancing security
- App improvement challenge

Module 6: Guided Project

- Environment setup
- Code analysis & documentation
- New feature development
- Unit tests & refactoring
- Code optimization

Exams & Assessments

- No formal exams
- Learners complete labs, guided tasks, and scenario challenges

Hands-On Learning

- Labs on configuring GitHub Copilot extensions
- Practical coding, documentation & testing exercises
- A real-world guided project
- Instructor feedback and collaborative learning