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# Developing Applications using GitHub Copilot (DGHCI)

ID DGHCI Price on request Duration 1 day

## Who should attend

Developer

- Code Comments
- Generate Markdown Documentation
- Creating Mermaid Architecture Diagrams

## Course Content

### GitHub Copilot Introduction

- Overview GitHub Copilot
- Enabling & Configuring Feature using Setting
- Prompt Engineering & Reusable Prompts
- Ask, Edit & Agent Mode vs Coding Agent
- AI Model comparison

### Generate Code using GitHub Copilot

- Inline Code Generation and suggestions
- Understanding and using Context
- Chat Participants & Slash Commands
- Mastering Multi-File Edits
- Integrating Code from Online Resources
- Overriding LLM Data using Instructions

### Using & Extending Agents Mode

- Github Copilot Agent Mode Overview & Best Practice
- Agent related Settings
- Adding Tools using Model Context Protocol (MCP)
- Manage Tool approvals
- Using Custom Models

### Refactoring, Fixing Errors & Reducing Repetitive Tasks

- Semantic Search & Explaining Code
- Using Thinking Models for Architecture and Code Optimization
- Using Screenshots & Vision for Error Fixing
- Implementing Instructions for Repetitive Tasks

### Testing using Copilot

- Implementing Unit Tests
- Fixing Test Errors
- Integration Tests using Playwright MCP

### Using Copilot for Documentation

### Copilot for Git & Source Control

- Effective Commit Messages, Pull Requests
- Using Code Reviews
- Resolving Merge Conflicts
- Creating DevContainers & CodeSpaces
- Using the GitHub MCP

### Asynchronous Development using Coding Agent

- Coding Agent Overview and Licensing
- Consistent Environments using DevContainers
- Setup Unit Testing for Result Validation
- Optimizing DevOps Pipelines & Triggers
- Delegating Tasks to the Coding Agent using Issues
- Pull Request & Review Workflow Best Practices

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## Training Centres worldwide



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