



GitHub Copilot

Hackathon



Synopsis

The GitHub Copilot Hackathon workshop empowers developers with hands-on training to harness GitHub Copilot. Participants will learn AI-assisted programming techniques, productivity-enhancing workflows, and best coding practices, focusing on integration with Microsoft Azure services.

Objectives

- Understand how GitHub Copilot accelerates programming tasks and boosts productivity.
- Learn prompt crafting techniques for effective AI-powered coding.
- Gain practical insights into integrating GitHub Copilot with Microsoft Azure services such as Azure DevOps, Azure Functions, and Azure App Service.

Prerequisites

Technical Requirements:

- Client-provided training facilities (room, projector, internet, PCs)
- Computers (min. 8GB RAM, 10GB storage, Windows 10 64-bit or MacOS 11 Big Sur)
- Stable internet with webcam/microphone for virtual/hybrid sessions
- Access to Visual Studio Code, GitHub Copilot, and Azure services
- Administrator access for software installation

Foundational Knowledge:

- Basic programming knowledge
- Familiarity with CLI
- Understanding of Git/GitHub concepts

Approach

Training Format:

- Online via Microsoft Teams
- Presentation and discussion in English
- English training materials
- Practical exercises and labs integrating GitHub Copilot with Azure services
- Softcopy training materials provided

Training Tools:

- Azure cloud computing platforms and relevant software
- Group activities and collaborative projects

Session Structure:

- Flexible sessions as per mutual agreement
- Regular breaks for better engagement

Duration

- 1/2 Day

Target Audience

- Software developers
- DevOps engineers
- Team leads and tech enthusiasts interested in AI-assisted programming and Azure integration

Topic/Agenda

- Introduction to GitHub Copilot and its integration with Azure
- Prompt crafting and AI coding techniques
- Hands-on exercises and real-world scenarios using Azure DevOps, Azure Functions, and Azure App Service
- Collaborative programming best practices with Azure
- Wrap-up and feedback session