**Course Contents: 6 Hours (3 hours/day)**

**Introduction to GitHub Copilot**

* What is GitHub Copilot?
* How does Copilot work? (Codex, LLMs, context, training data)

**Setting Up Copilot**

* Sign-up for Copilot (Individual/Org)
* Supported IDEs (focus on VSCode)

**Configuring Copilot in Dev Environment**

* Installing Copilot plugin in VSCode
* Keyboard bindings
* Copilot Modes: Ask Mode, Edit Mode, Agent Mode
* Security and IP considerations

**What Co-pilot is NOT**

* May not always accurate,
* requires review,
* not a substitute for design thinking

**Hands-on Activity**

* Setup GitHub Copilot in VSCode
* Explore autocomplete and function generation

**How Copilot Works?**

* Understand Context and Intent
* LLM Models
* Integration with IDE ( With Plugins )
* Chat Variables, Chat Participants and Slash Commands
* Prompt Engineering

**Introduction to Copilot Chat**

* Copilot Chat Overview
* Enabling for Personal Accounts
* In-line chat / Quick Chat vs Chat Panel in VSCode

**Copilot Modes in Depth**

* Ask Mode
* Edit Mode
* Agent Mode in action

**Using Copilot Chat in IDE**

* Asking coding questions in the IDE
* Real-time code assistance
* Sample use cases
  + Generating Method from comment
  + Generate Method body from method signature
  + Generating Documentation
  + Code Review using Copilot

**Hands-on Activity**

* Use Copilot Chat to debug or extend code
* Ask questions, refactor code snippets

**Copilot for Business & Enterprise**

* Licensing for teams
* Managing access and roles
* Audit logs and usage visibility

**Governance and Admin Configuration**

* Knowledge bases
* Content exclusions
* Data Privacy and Security in Copilot
* Copilot FAQs

**End-to-End Hands-On Project**

* Build a REST API in Java or .NET Core or Python or NodeJS
* Use Copilot to:
  + Scaffold project structure
  + Add REST endpoints
  + Generate boilerplate code
  + Add input validation, documentation