

## Einführung in die Entwicklung von Pro-Code Agents:

- **Microsoft 365 Agents Toolkit**
- **Microsoft Foundry**
- **Microsoft Agent Framework**
- <https://github.com/alexander-kastil/talk-pro-code-agents>



# Fast Lane Group

## Worldwide Education & Professional Services



Microsoft Cloud  
Training Services

[www.flane.de](http://www.flane.de)



 **Fast Lane**

# ALEXANDER KASTIL

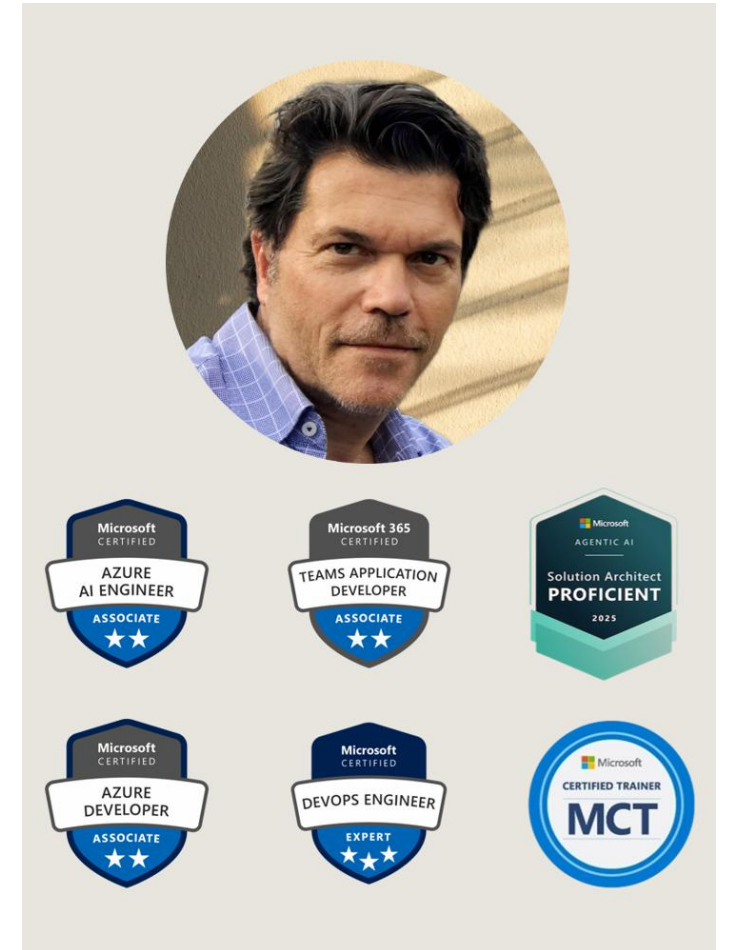
- Microsoft Certified Trainer since 2000
- Microsoft Agents Framework & Azure AI Foundry Agent Service
- Low-Code & Pro-Code Agents for Copilot for Microsoft 365
- Microsoft 365-, Teams-, SharePoint- & Microsoft Graph
- Azure Cloud Native Apps with .NET Aspire & Dapr
- GitHub Copilot Agentic Software Engineering
- Azure DevOps & Infrastructure as Code
- Angular & Micro Frontends



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# AGENDA

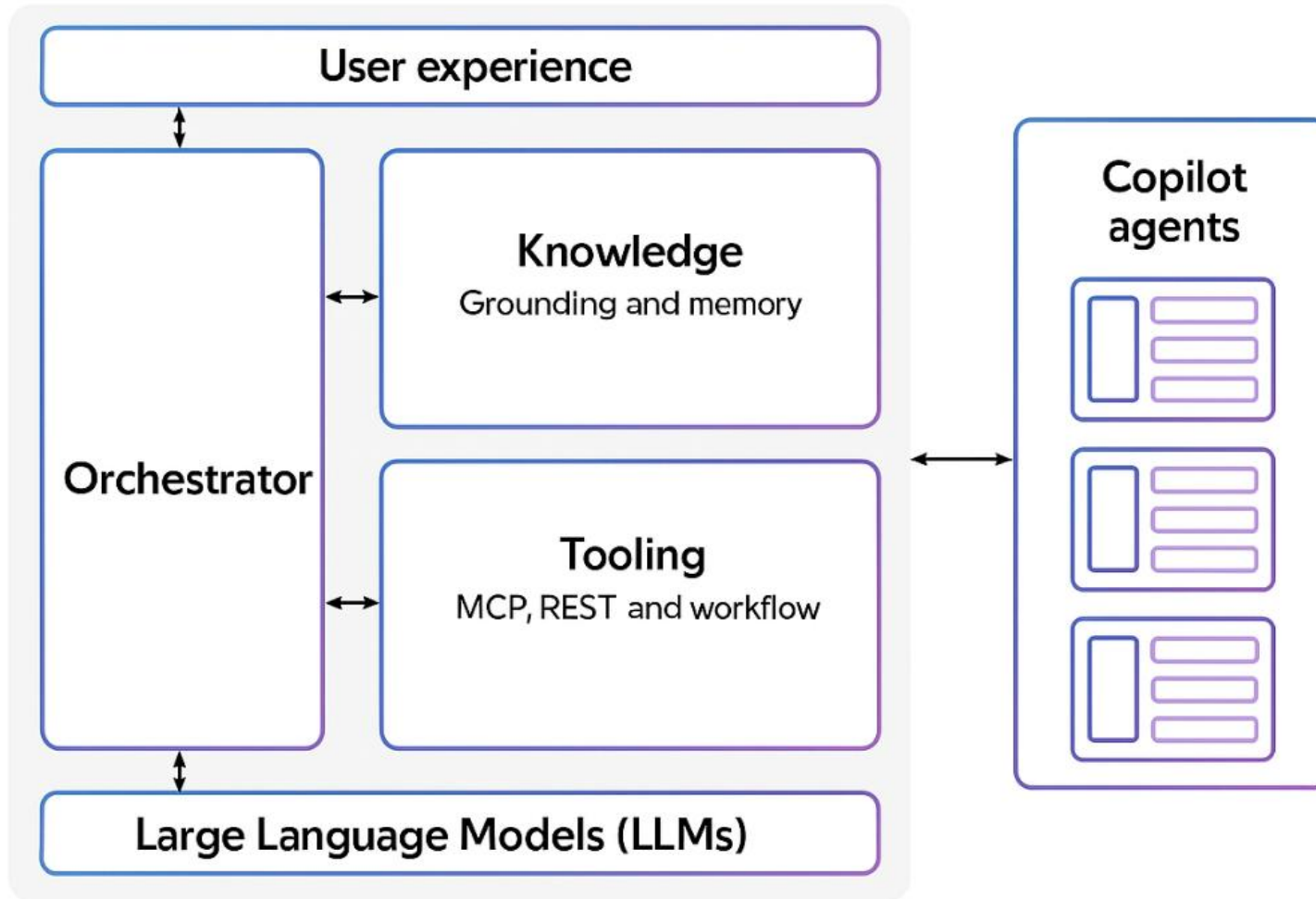
- Copilot & Agents Overview
- Agentic AI & Business Scenario Discovery
- No-Code Agents with Agent Builder
- Low-Code Agents with Copilot Studio



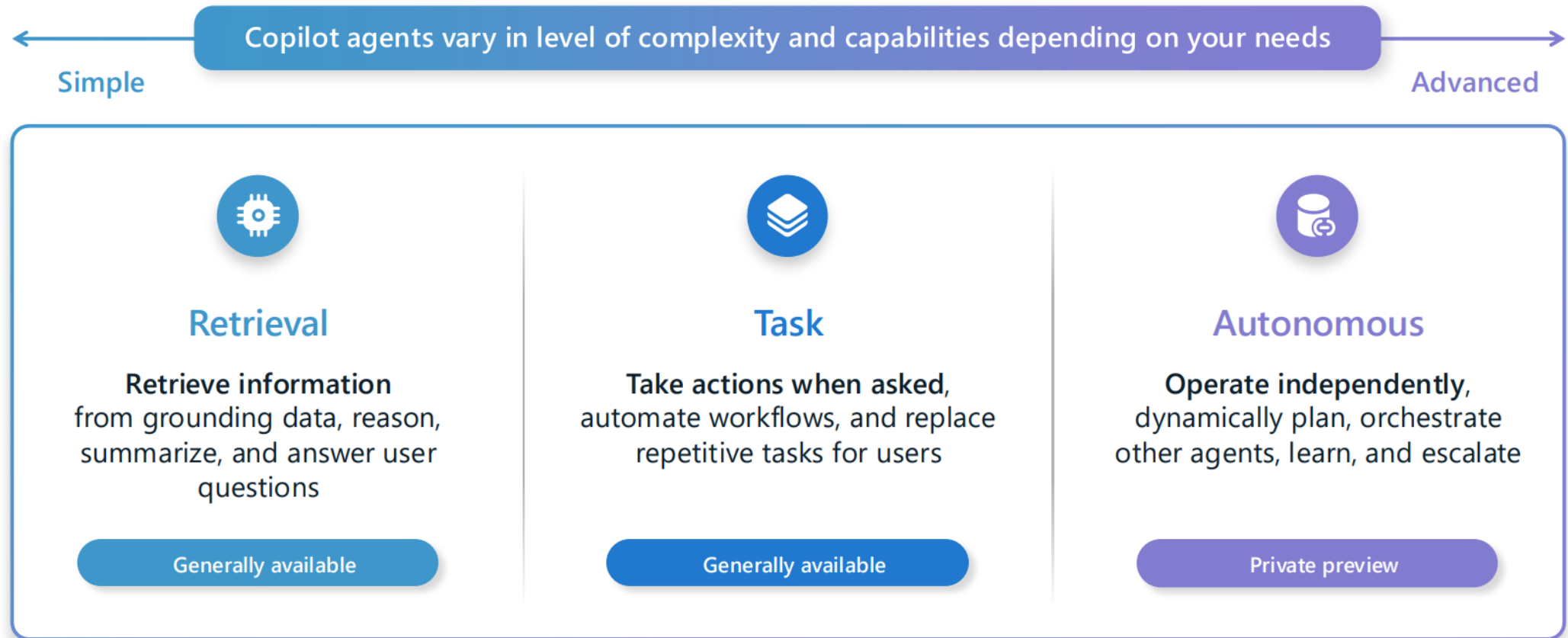
# Copilot & Agents Overview



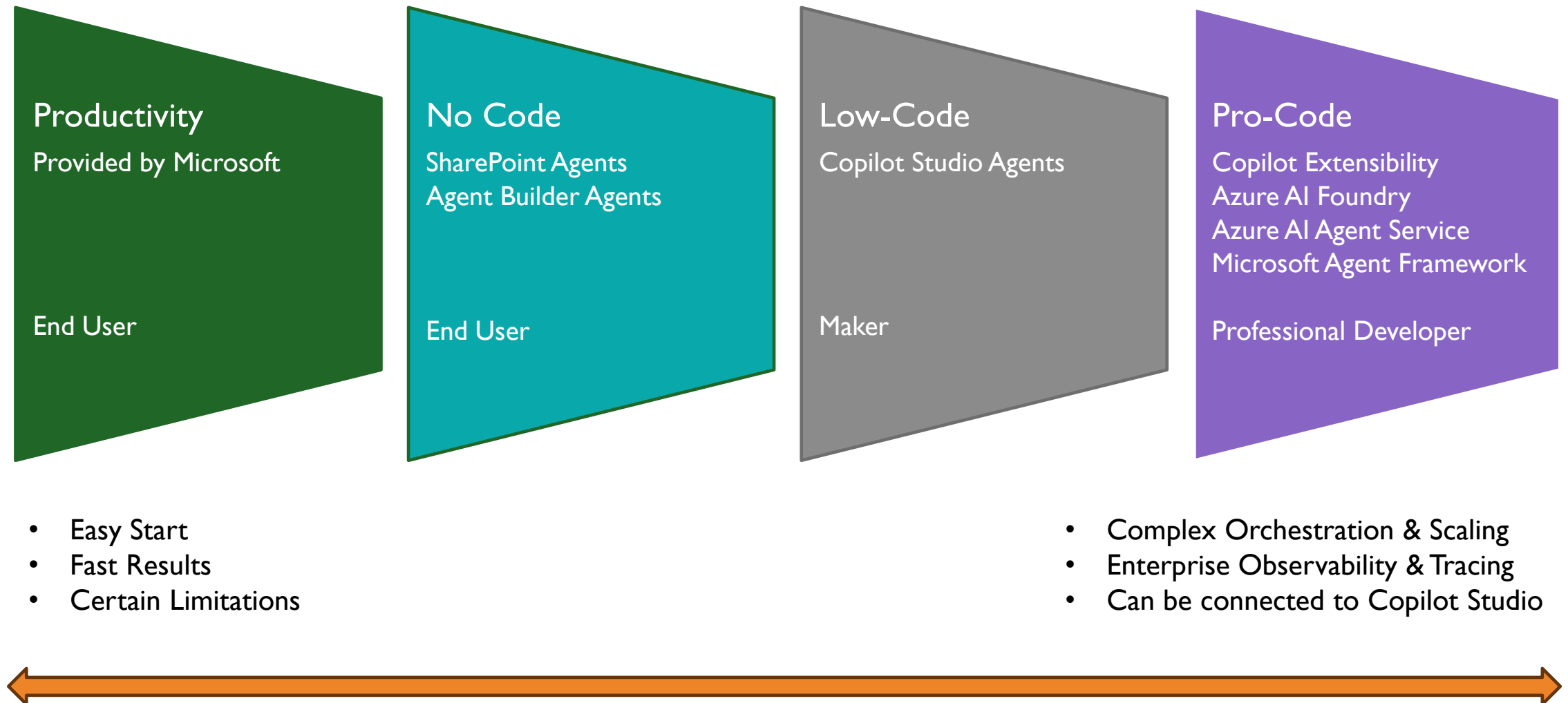
# KEY ELEMENTS OF AGENTS



# AGENTS TYPES



# COPILOT & AGENTS EXTENSIBILITY PATH







# Microsoft 365 Agents Toolkit



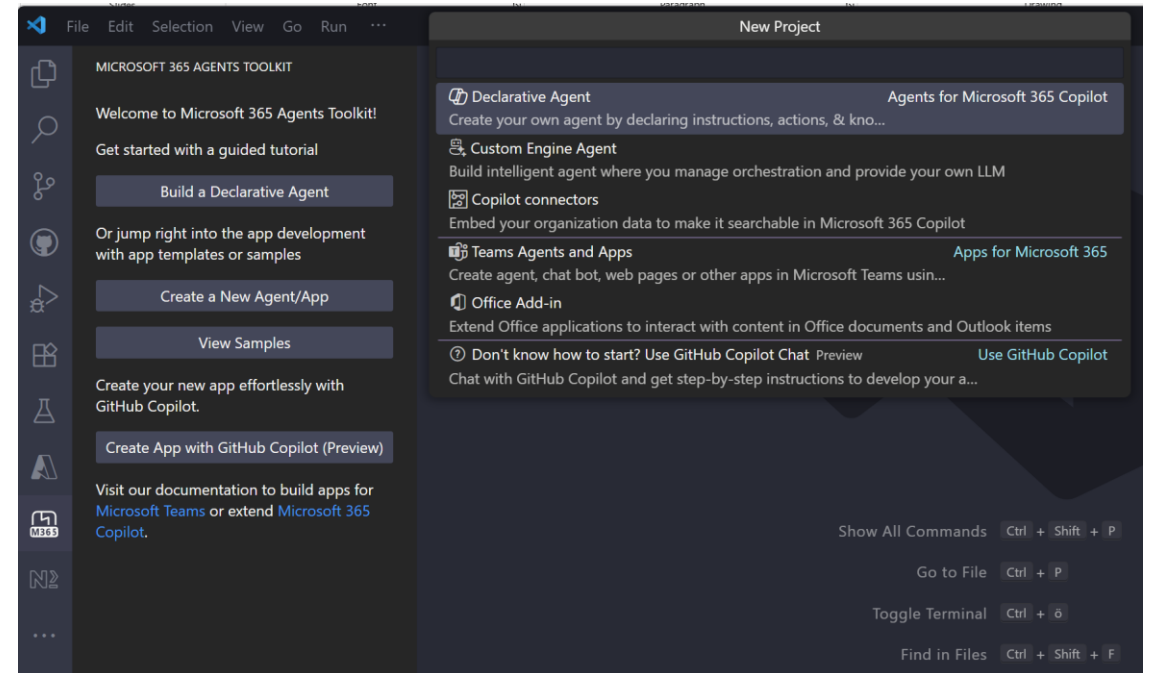


# DECLARATIVE AGENTS

- Configuration-Driven Customization
  - Declarative agents allow developers to define instructions, actions, and knowledge sources without writing extensive code
- Built on Microsoft 365 Copilot Infrastructure
  - These agents run on the same trusted AI services, orchestrator, and foundation models as Microsoft Copilot
- Custom Knowledge
  - Use custom knowledge to provide extra data and context to Microsoft 365 Copilot that is scoped to a specific scenario or task.
- Custom Actions
  - Enable declarative agents to interact with external systems in real-time.

# BUILD YOUR FIRST DECLARATIVE AGENT

- Open Microsoft 365 Agent Toolkit
- Choose Create a New Agent / App
- Choose Declarative Agent
- Make sure you have logged on to:
  - Microsoft 365
  - Azure
- Go to Lifecycle -> Provision
- Development -> Preview Your App (F5)
  - Preview in Copilot (Edge)





Microsoft Foundry



# MICROSOFT FOUNDRY



**Models**



**Agent Service**



**IQ**



**Tools**



**Machine Learning**



**Control Plane**

**Security, compliance, and governance**



# Microsoft Agent Framework





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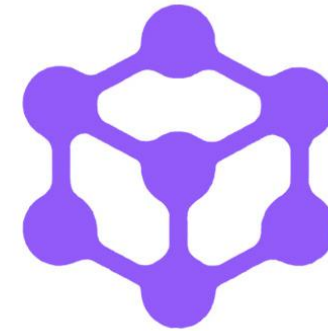
# MICROSOFT AGENT FRAMEWORK

## AI agents:

- Individual agents that use LLMs to process user inputs, call tools and MCP servers to perform actions, and generate responses.

## Workflows:

- Graph-based workflows that connect multiple agents and functions to perform complex, multi-step tasks.
- Workflows support type-based routing, nesting, checkpointing, and request/response patterns for human-in-the-loop scenarios.



# IN DEPTH CLASSES

- Designing, Implementing & Maintaining Low-Code Agents using Copilot Studio – 4 days
  - *Introduction to Copilot Extensibility & Agents*
  - *Copilot Studio Basics*
  - *Extending Copilot Studio Agents Tools*
  - *Advanced Copilot Studio Agents*
  - *Designing & Implementing Business Processes*
  - *Publishing & Maintaining Copilot Studio Agents*
- Designing & Implementing Agents and Pro Code Copilots using Microsoft Agent Framework and Azure AI Agent – 5 days
  - *Copilot, Agents & Microsoft Foundry Essentials*
  - *Model Protocol Context Servers*
  - *Develop AI Agents using Microsoft Agent Framework*
  - *Designing & Implementing Agents using Microsoft Foundry Agent Service*
  - *Copilot Extensibility: Agents, Connectors & Copilot APIs*