

Build Intelligent Agents with Azure AI Foundry

Duration: 120 Minutes

◆ 1. Introduction to Intelligent Agents (10 mins)

- What are Intelligent Agents?
 - Difference: AI Models vs Agents vs Chatbots
 - Real-world use cases (Customer support, automation, copilots)
 - Why agents are the future of AI
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◆ 2. Overview of Azure AI Ecosystem (10 mins)

- Introduction to Azure AI Foundry
 - Key components:
 - Azure OpenAI
 - AI Studio
 - Cognitive Services
 - Where Agents fit in the ecosystem
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◆ 3. Core Concepts of Agent Design (15 mins)

- Agent Architecture
 - Tools & Function Calling
 - Memory (Short-term vs Long-term)
 - Planning & Reasoning
 - Prompt Engineering for Agents
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◆ 4. Setting Up Azure AI Foundry (10 mins)

- Creating Azure account & resources
- Setting up AI Foundry workspace
- Deploying a model (GPT / OpenAI)

- API keys & environment setup
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◆ 5. Building Your First AI Agent (Hands-on) (20 mins)

- Define use case (e.g., FAQ assistant)
 - Create agent with prompts
 - Add basic tool/function
 - Test interaction
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◆ 6. Enhancing Agents with Tools & Data (15 mins)

- Integrating APIs & tools
 - Retrieval-Augmented Generation (RAG)
 - Connecting to databases / documents
 - Real-time data access
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◆ 7. Multi-Agent Systems & Advanced Capabilities (10 mins)

- What are multi-agent systems?
 - Collaboration between agents
 - Planner + Executor pattern
 - Use cases (automation workflows)
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◆ 8. Deployment & Monitoring (10 mins)

- Deploying agents to production
 - Monitoring performance
 - Logging & debugging
 - Cost optimization tips
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◆ 9. Responsible AI & Security (10 mins)

- Responsible AI principles

- Content filtering & moderation
 - Data privacy & security
 - Guardrails for agents
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◆ 10. Demo + Q&A + Wrap-up (10 mins)

- Live demo recap
- Key takeaways
- Resources & next steps
- Q&A