SmartTekLearning

AI-102: DEVELOP AI SOLUTIONS IN AZURE

LEVEL	INTERMEDIATE	ROLE	AI ENGINEER
DURATION	5 DAY	PRODUCT	AZURE

OVERVIEW

AI-102: Develop AI solutions in Azure is intended for software developers wanting to build AI infused applications that leverage Azure AI Foundry and other Azure AI services. Topics in this course include developing generative AI apps, building AI agents, and solutions that implement computer vision and information extraction.

AUDIENCE PROFILE

This course was designed for software engineers concerned with building, managing and deploying AI solutions that leverage Azure AI Foundry and other Azure AI services. They are familiar with C# or Python and have knowledge on using REST-based APIs and SDKs to build generative AI, computer vision, language analysis, and information extraction solutions on Azure.

After completing this course, you'll be able to:

- **Design and deploy** AI solutions using Azure AI Foundry services

- **Develop generative AI apps and agents**, including those built with Azure OpenAI

- **Build computer vision pipelines**, from object detection to spatial and handwriting analysis

- **Implement natural language processing and speech**, including sentiment, translation, and intent detection

- **Create knowledge mining and document intelligence systems**, including custom models and search solutions

- **Apply Responsible AI principles**, such as content moderation and safety

- **Manage, monitor, and secure** your AI deployments—handling CI/CD, authentication, cost, and performance

Course Prerequisites:

If you are new to artificial intelligence, and want an overview of AI capabilities on Azure, consider completing Microsoft Azure AI Fundamentals Training (AI-900) before taking this one. You should already have:

- Knowledge of Microsoft Azure and ability to navigate the Azure portal
- Knowledge of either C# or Python
- Familiarity with JSON and REST programming semantics

Course Outline

- Plan and manage an Azure AI solution
- Service selection, deployment, CI/CD, security, monitoring, Responsible AI
- Implement generative AI solutions
- Azure AI Foundry projects, Azure OpenAI, prompt flows, RAG patterns, tuning, tracing
- Implement an agentic solution
- Build agents with Foundry Agent Service, Semantic Kernel, multi-agent orchestration
- Implement computer vision solutions
- Image analysis, object detection, OCR, custom vision model training, video insights
- Implement natural language & speech solutions
- Text/translation, sentiment, PII, speech-to-text, intent recognition, custom language models, Q&A systems
- Implement knowledge mining and information extraction
  Azure Search, indexing, semantic/vector search, Document Intelligence, OCR pipelines, information extraction

Further Information:

For More information, or to book your course

Course AI-102: Develop AI solutions in Azure

https://smarteklearning.com/Course/ai-102-develop-ai-solutions-in-azure/

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