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Develop AI solutions in Azure (AI-102)

Duration: 4 Days Course Code: M-Al102 Delivery Method: Company Event

Overview:

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. The course will use C# or Python as the programming language.

Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

Target Audience:

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.

Objectives:

- Students will learn to:
- Describe considerations for Al-enabled application development
- Create, configure, deploy, and secure Azure Cognitive Services
- Develop applications that analyze text
- Develop speech-enabled applications
- Create applications with natural language understanding capabilities
- Create QnA applications

- Create conversational solutions with bots
- Use computer vision services to analyze images and videos
- Create custom computer vision models
- Develop applications that detect, analyze, and recognize faces
- Develop applications that read and process text in images and documents
- Create intelligent search solutions for knowledge mining

Prerequisites:

Before attending this course, students must have:

- Knowledge of Microsoft Azure and ability to navigate the Azure porta
- Knowledge of either C# or Python
- Familiarity with JSON and REST programming semantics
 To gain C# or Python skills, complete the free Take your first steps
 with C# or Take your first steps with Python learning path before
 attending the course.

If you are new to artificial intelligence, and want an overview of Al capabilities on Azure, consider completing the Azure Al Fundamentals certification before taking this one.

Testing and Certification

Exam Al-102: Designing and Implementing a Microsoft Azure Al Solution (beta)

- M-Al900 Microsoft Azure Al Fundamentals
- M-AZ900 Microsoft Azure Fundamentals

Content:

Module 1: Develop generative AI apps in Azure

- Plan and prepare to develop Al solutions on Azure
- Choose and deploy models from the model catalog in Azure Al Foundry portal
- Develop an Al app with the Azure Al Foundry SDK
- Get started with prompt flow to develop language model apps in the Azure Al Foundry
- Develop a RAG-based solution with your own data using Azure AI Foundry
- Fine-tune a language model with Azure Al Foundry
- Implement a responsible generative Al solution in Azure Al Foundry
- Evaluate generative AI performance in Azure AI Foundry portal

Module 2: Develop AI agents on Azure

- Get started with AI agent development on Azure
- Develop an AI agent with Azure AI Foundry Agent Service
- Integrate custom tools into your agent
- Develop an AI agent with Semantic Kernel
- Orchestrate a multi-agent solution using Semantic Kernel

Module 3: Develop natural language solutions in Azure

- Analyze text with Azure Al Language
- Create question answering solutions with Azure Al Language
- Build a conversational language understanding model
- Create a custom text classification solution
- Custom named entity recognition
- Translate text with Azure Al Translator service
- Create speech-enabled apps with Azure Al services
- Translate speech with the Azure Al Speech service
- Develop an audio-enabled generative Al application

Module 4: Develop computer vision solutions in Azure

- Analyze images
- Read text in images
- Detect, analyze, and recognize faces
- Classify images
- Detect objects in images
- Analyze video
- Develop a vision-enabled generative Al application
- Generate images with AI

Module 5: Develop AI information extraction solutions in Azure

- Create a multimodal analysis solution with Azure Al Content Understanding
- Create an Azure AI Content Understanding client application
- Use prebuilt Document intelligence models
- Extract data from forms with Azure Document intelligence
- Create a knowledge mining solution with Azure Al Search

Further Information:

For More information, or to book your course, please call us on 00 971 4 446 4987

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