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Learning Style: On Demand

Technology: Microsoft

Difficulty: Beginner

Course Duration: 4 Hours

Designing and Implementing a Microsoft Azure AI Solution (AI-102T00)



About This Course:

Designing and Implementing a Microsoft Azure AI Solution (AI-102T00) is a dynamic self-paced course designed to empower professionals with cutting-edge skills in building and deploying AI-driven solutions using Microsoft Azure. Dive deep

into cognitive services, machine learning models, and AI-powered bots, and transform your expertise to lead innovative projects in the ever-evolving AI landscape.

Course Objectives:

- Introduction to AI on Azure
- Developing AI Apps with Cognitive Services
- Getting Started with Natural Language Processing
- Building Speech-Enabled Applications
- Creating Language Understanding Solutions
- Building a Question Answering Solution
- Conversational AI and the Azure Bot Service
- Getting Started with Computer Vision
- Developing Custom Vision Solutions
- Detecting, Analyzing, and Recognizing Faces
- Reading Text in Images and Documents
- Creating a Knowledge Mining Solution

Audience:

- AI Developers: Professionals looking to enhance their expertise in building and deploying AI solutions using Azure.
- Data Scientists: Individuals seeking to integrate AI models and cognitive services into their workflows.
- Cloud Solution Architects: Those focused on designing and implementing AI solutions within Azure ecosystems.
- IT Professionals: Technologists who want to specialize in AI and machine learning technologies

Prerequisites:

- Basic Programming Knowledge: Familiarity with at least one programming

language, preferably Python or C#.

- Understanding of Azure Fundamentals: Knowledge of core Azure services, such as Azure AI and Azure Cognitive Services. (Completion of AZ-900: Microsoft Azure Fundamentals is recommended but not mandatory.)

Course Outline:

- Module 1: Introduction to AI on Azure
 - Lesson 1: Introduction to Artificial Intelligence
 - Lesson 2: Artificial Intelligence in Azure
- Module 2: Developing AI Apps with Cognitive Services
 - Lesson 1: Getting Started with Cognitive Services
 - Lesson 2: Using Cognitive Services for Enterprise Applications
- Module 3: Getting Started with Natural Language Processing
 - Lesson 1: Analyzing Text
 - Lesson 2: Translating Text
- Module 4: Building Speech-Enabled Applications
 - Lesson 1: Speech Recognition and Synthesis
 - Lesson 2: Speech Translation
- Module 5: Creating Language Understanding Solutions
 - Lesson 1: Creating a Language Understanding App
 - Lesson 2: Publishing and Using a Language Understanding App
- Module 6: Building a Question Answering Solution
 - Lesson 1: Creating a Knowledge Base
 - Lesson 2: Publishing and Using a Knowledge Base
- Module 7: Conversational AI and the Azure Bot Service
 - Lesson 1: Bot Basics
 - Lesson 2: Implementing a Bot
- Module 8: Getting Started with Computer Vision
 - Lesson 1: Analyzing Images
 - Lesson 2: Analyzing Videos
- Module 9: Developing Custom Vision Solutions
 - Lesson 1: Image Classification
 - Lesson 2: Object Detection
- Module 10: Detecting, Analyzing, and Recognizing Faces
 - Lesson 1: Detecting Faces with the Computer Vision Service
 - Lesson 2: Using the Face Service
- Module 11: Reading Text in Images and Documents
 - Lesson 1: Reading text with the Computer Vision Service
 - Lesson 2: Extracting Information from Forms with the Form Recognizer service
- Module 12: Creating a Knowledge Mining Solution
 - Lesson 1: Implementing an Intelligent Search Solution
 - Lesson 2: Developing Custom Skills for an Enrichment Pipeline
 - Lesson 3: Creating a Knowledge Store