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Learning Style: Online Instructor-Led

Technology:

Difficulty: Beginner

Course Duration: 1 Day

Introduction to AI in Azure



About This Course:

This course introduces fundamental concepts related to artificial intelligence (AI), and the services in Microsoft Azure that can be used to create AI solutions. It teaches a mix of AI concepts and technology skills that are considered foundational to a successful career implementing AI solutions on Microsoft Azure.

Course Objectives:

- Introduction to AI concepts
- Introduction to generative AI and agents
- Introduction to natural language processing concepts
- Introduction to AI speech concepts
- Introduction to computer vision concepts
- Introduction to AI-powered information extraction concepts
- Get started with AI in Azure
- Get started with generative AI and agents in Azure
- Get started with text analysis in Azure
- Get started with speech in Azure
- Get started with computer vision in Azure
- Get started with AI-powered information extraction in Azure

Audience:

- This course is for aspiring technology professionals at the beginning of their career in AI solution development. Some knowledge of Python coding syntax and programming techniques is useful. Additionally, knowledge of core cloud concepts, including cloud storage, cloud compute, and cloud-based authentication and authorization is recommended.

Prerequisites:

- There are no required prerequisites

Course Outline:

- Generative AI and agents
- Text and natural language
- Speech

- Computer vision
- Information extraction
- Responsible AI
- Module assessment
- Large language models (LLMs)
- Prompts
- AI agents
- Module assessment
- Tokenization
- Statistical text analysis.
- Semantic language models
- Module assessment
- Speech-enabled solutions
- Speech recognition
- Speech synthesis
- Module assessment
- Computer vision tasks and techniques
- Images and image processing
- Convolutional neural networks
- Vision transformers and multimodal models
- Image generation
- Module assessment
- Overview of information extraction
- Optical character recognition (OCR)
- Field extraction and mapping
- Module assessment
- Understand Azure
- Developing AI apps on Azure
- Microsoft Foundry for AI
- Using Microsoft Foundry endpoints
- Generative AI models
- Using a generative AI model
- Creating an agent
- Azure Language
- Azure Language SDK
- Azure Language MCP
- Module assessment
- Speech recognition
- Speech synthesis
- Creating a speech-capable agent
- Module assessment
- Multimodal models for image analysis
- Image generation models
- Video generation models
- Module assessment
- Extract information from documents
- Extract information from audio and video
- Module assessment