Microsoft Azure AI Fundamental

Online Course

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Microsoft Azure AI Fundamental

Course Modules

1. Describe Artificial Intelligence workloads and considerations

Identify features of common AI workloads
- Identify features of content moderation and personalization
- Identify computer vision workloads
- Identify natural language processing workloads
- Identify knowledge mining workloads
- Identify document intelligence workloads
- Identify features of generative AI workloads

Identify guiding principles for responsible AI
- Describe considerations for fairness in an AI solution
- Describe considerations for reliability and safety in an AI soln
- Describe considerations for privacy and security in an AI soln
- Describe considerations for inclusiveness in an AI solution
- Describe considerations for transparency in an AI solution
- Describe considerations for accountability in an AI solution

2. Describe fundamental principles of machine learning on Azure

Identify common machine learning techniques
- Identify regression machine learning scenarios
- Identify classification machine learning scenarios
- Identify clustering machine learning scenarios
- Identify features of deep learning techniques

Describe core machine learning concepts
- Identify features and labels in a dataset for machine learning
- Training and validation datasets are used in machine learning

Describe Azure Machine Learning capabilities
- Describe capabilities of Automated machine learning
- Describe data and compute services
- Describe model management and deploymentcapabilities

3. Describe features of computer vision workloads on Azure

Identify common types of computer vision solution:
- Identify features of image classification solutions
- Identify features of object detection solutions
- Identify features of optical character recognition solutions
- Identify features of facial detection and facial analysis solutions

Identify Azure tools and services for computer vision tasks
- Describe capabilities of the Azure AI Vision service
- Describe capabilities of the Azure AI Face detection service
- Describe capabilities of the Azure AI Video Indexer service

4. Describe features of Natural Language Processing (NLP)

Identify features of common NLP Workload Scenarios
- Identify features and uses for key phrase extraction
- Identify features and uses for entity recognition
- Identify features and uses for sentiment analysis
- Identify features and uses for language modeling
- Identify features and uses for speech recognition and synthesis
- Identify features and uses for translation

Identify Azure tools and services for NLP workloads
- Describe capabilities of the Azure AI Language service
- Describe capabilities of the Azure AI Speech service
- Describe capabilities of the Azure AI Translator service

5. Describe features of generative AI workloads on Azure

Identify features of generative AI solutions
- Identify features of generative AI models
- Identify common scenarios for generative AI
- Identify responsible AI considerations for generative AI

Identify capabilities of Azure OpenAI Service
- Describe natural language generation capabilities
- Describe code generation capabilities of Azure OpenAI Service
- Describe image generation capabilities of Azure OpenAI Service

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The efficiency of online learning in terms of time management, flexibility, and the ability to access resources anytime, anywhere can be compelling.

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