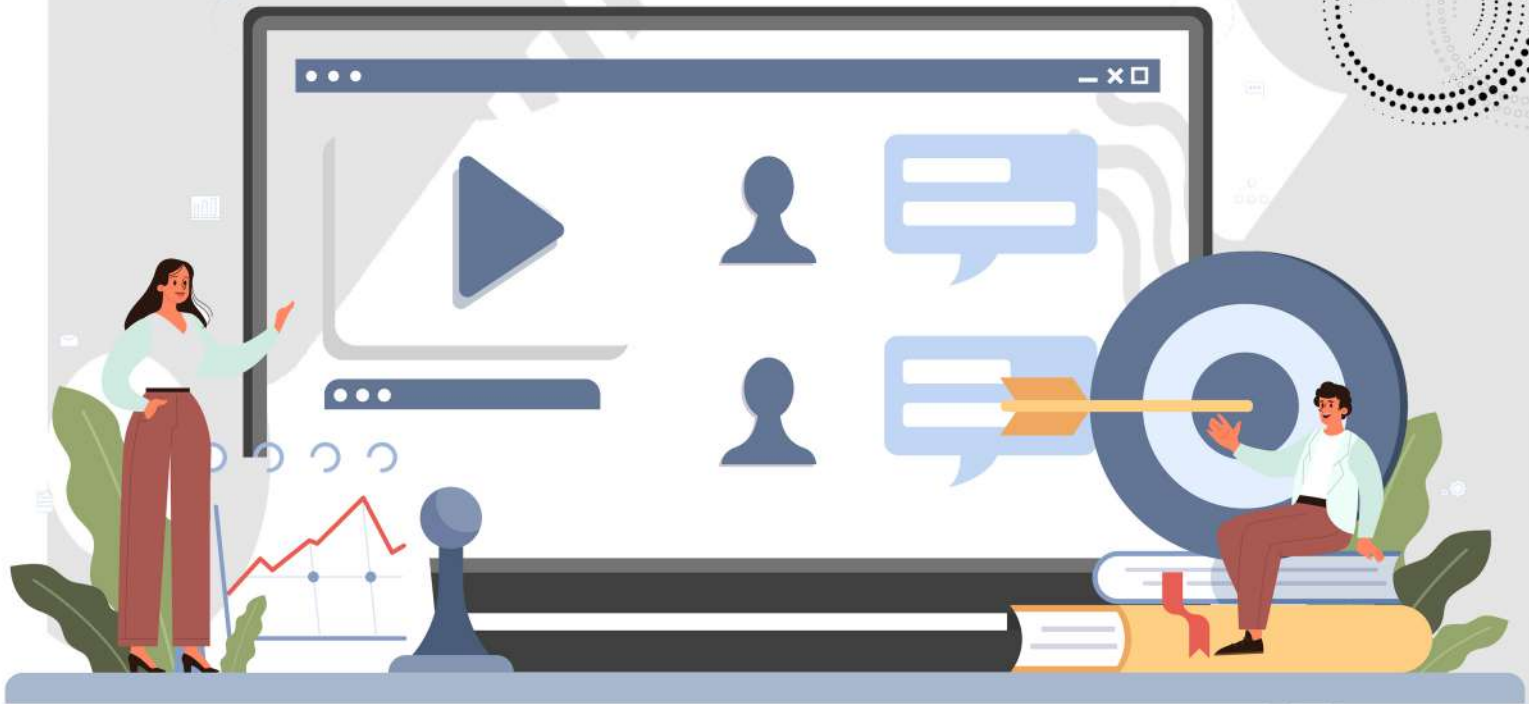


Designing and Implementing a Microsoft Azure AI Solution



Online Course

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Designing and Implementing a Microsoft Azure AI Solution

Course Modules



1. Plan and manage an Azure AI solution

Select the appropriate Azure AI service

- Select the appropriate service for a computer vision solution
- Select the appropriate service for a natural lang process soln
- Select the appropriate service for a decision support solution
- Select the appropriate service for a speech solution
- Select the appropriate service for a generative AI solution
- Select the appropriate service for a document intelligence soln
- Select the appropriate service for a knowledge mining solution

Plan, create and deploy an Azure AI service

- Plan for a solution that meets Responsible AI principles
- Create an Azure AI resource
- Determine a default endpoint for a service
- Integrate Azure AI services
- Plan and implement a container deployment

Manage, monitor and secure an Azure AI service

- Configure diagnostic logging
- Monitor an Azure AI resource
- Manage costs for Azure AI services
- Manage account keys
- Protect account keys by using Azure Key Vault
- Manage authentication for an Azure AI Service resource
- Manage private communications



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2. Implement decision support solutions

Create decision support solutions for data monitoring

- Implement a data monitoring solution with Azure AI Metrics Advisor
- Implement a text moderation solution with Azure AI Content Safety
- Image moderation solution with Azure AI Content Safety

3. Implement computer vision solutions

Analyze images

- Select visual features to meet image processing requirements
- Detect objects in images and generate image tags
- Include image analysis features
- Extract text from images using Azure AI Vision
- Convert handwritten text using Azure AI Vision

Implement custom computer vision models by using Azure AI Vision

- Choose between image classification and object detection models
- Label images
- Train a custom image model
- Evaluate custom vision model metrics
- Publish a custom vision model
- Consume a custom vision model

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Analyze videos

- Use Azure AI Video Indexer to extract insights
- Use Azure AI Vision Spatial Analysis



4. Implement natural language processing solutions

Analyze text by using Azure AI Language

- Extract key phrases
- Extract entities
- Determine sentiment of text
- Detect the language used in text
- Detect personally identifiable information (PII) in text

Process speech by using Azure AI Speech

- Implement text-to-speech
- Implement speech-to-text
- Improve text-to-speech by using Speech Synthesis Markup Lang
- Implement custom speech solutions
- Implement intent recognition
- Implement keyword recognition

Translate language

- Trnslt text and documents by using the Azure AI Translator service
- Custom translation, including training, improving, etc.,
- Translate speech-to-speech by using the Azure AI Speech service
- Translate speech-to-text by using the Azure AI Speech service
- Translate to multiple languages simultaneously

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Azure AI Language

- Create intents and add utterances
- Create entities
- Train, evaluate, deploy, and test a language understanding model
- Optimize a language understanding model
- Consume a language model from a client application
- Backup and recover language understanding models

Create a question answering solution by using Azure AI Language

- Create a question answering project
- Add question-and-answer pairs manually
- Import sources
- Train and test a knowledge base
- Publish a knowledge base
- Create a multi-turn conversation
- Add alternate phrasing
- Add chit-chat to a knowledge base
- Export a knowledge base
- Create a multi-language question answering solution



5. Implement knowledge mining and document intelligence solution

Implement an Azure Cognitive Search solution

- Provision a Cognitive Search resource
- Create data sources
- Create an index
- Define a skillset
- Implement custom skills and include them in a skillset
- Create and run an indexer

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Implement an Azure AI Document Intelligence solution

- Provision a Document Intelligence resource
- Use prebuilt models to extract data from documents
- Implement a custom document intelligence model
- Train, test, and publish a custom document intelligence model
- Create a composed document intelligence model
- Doc intelligence model as a custom Azure Cognitive Search skill

6. Implement generative AI solutions

Use Azure OpenAI Service to generate content

- Provision an Azure OpenAI Service resource
- Select and deploy an Azure OpenAI model
- Submit prompts to generate natural language
- Submit prompts to generate code
- Use the DALL-E model to generate images
- Use Azure OpenAI APIs to submit prompts and receive responses



Optimize generative AI

- Configure parameters to control generative behavior
- Apply prompt engineering techniques to improve responses
- Use your own data with an Azure OpenAI model
- Fine-tune an Azure OpenAI model



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