Skills Measured

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1. Plan and manage an Azure AI solution (20–25%)
- Select the appropriate Azure AI Foundry services
  • Select the appropriate service for a generative AI solution
  • Select the appropriate service for a computer vision solution
  • Select the appropriate service for a natural language processing solution
  • Select the appropriate service for a speech solution
  • Select the appropriate service for an information extraction solution
  • Select the appropriate service for a knowledge mining solution
- Plan, create and deploy an Azure AI Foundry service
  • Plan for a solution that meets Responsible AI principles
  • Create an Azure AI resource
  • Choose the appropriate AI models for your solution
  • Deploy AI models using the appropriate deployment options
  • Install and utilize the appropriate SDKs and APIs
  • Determine a default endpoint for a service
  • Integrate Azure AI Foundry Services into a CI/CD pipeline
  • Plan and implement a container deployment
- Manage, monitor, and secure an Azure AI Foundry Service
  • Monitor an Azure AI resource
  • Manage costs for Azure AI Foundry Services
  • Manage and protect account keys
  • Manage authentication for an Azure AI Foundry Service resource
- Implement AI solutions responsibly
  • Implement content moderation solutions
  • Configure responsible AI insights, including content safety
  • Implement responsible AI, including content filters and blocklists
  • Prevent harmful behavior, including prompt shields and harm detection
  • Design a responsible AI governance framework

2. Implement generative AI solutions (15–20%)
- Build generative AI solutions with Azure AI Foundry
  • Plan and prepare for a generative AI solution
  • Deploy a hub, project, and necessary resources with Azure AI Foundry
  • Deploy the appropriate generative AI model for your use case
  • Implement a prompt flow solution
  • Implement a RAG pattern by grounding a model in your data
  • Evaluate models and flows
  • Integrate your project into an application with Azure AI Foundry SDK
  • Utilize prompt templates in your generative AI solution
- Use Azure OpenAI in Foundry Models to generate content
  • Provision an Azure OpenAI in Foundry Models resource
  • Select and deploy an Azure OpenAI model
  • Submit prompts to generate code and natural language responses
  • Use the DALL-E model to generate images
  • Integrate Azure OpenAI into your own application
  • Use large multimodal models in Azure OpenAI
  • Implement an Azure OpenAI Assistant

- Optimize and operationalize a generative AI solution
  • Configure parameters to control generative behavior
  • Configure model monitoring and diagnostic settings
  • Optimize and manage resources for deployment
  • Enable tracing and collect feedback
  • Implement model reflection
  • Deploy containers for use on local and edge devices
  • Implement orchestration of multiple generative AI models
  • Apply prompt engineering techniques to improve responses
  • Fine-tune a generative model

3. Implement an agentic solution (5–10%)
- Understand the role and use cases of an agent
- Configure the necessary resources to build an agent
- Create an agent with the Azure AI Foundry Agent Service
- Implement complex agents with Semantic Kernel and Autogen
- Implement complex workflows for multi-agent solutions
- Test, optimize and deploy an agent

4. Implement computer vision solutions (10–15%)
- Analyze images
  • Select visual features to meet image processing requirements
  • Detect objects in images and generate image tags
  • Include image analysis features in an image processing request
  • Interpret image processing responses
  • Extract text from images using Azure AI Vision
  • Convert handwritten text using Azure AI Vision
- Implement custom vision models
  • Choose between image classification and object detection models
  • Label images
  • Train a custom image model
  • Evaluate custom vision model metrics
  • Publish and consume a custom vision model
  • Build a custom vision model code first
- Analyze videos
  • Use Azure AI Video Indexer
  • Use Azure AI Vision Spatial Analysis

5. Implement natural language processing solutions (15–20%)
- Analyze and translate text
  • Extract key phrases and entities
  • Determine sentiment of text
  • Detect language used in text
  • Detect PII in text
  • Translate text and documents with Azure AI Translator
- Process and translate speech
  • Integrate generative AI speaking capabilities
  • Implement text-to-speech and speech-to-text
  • Improve text-to-speech using SSML
  • Implement custom speech solutions

- • Implement intent and keyword recognition
- • Translate speech-to-speech and speech-to-text
- Implement custom language models
  - • Create intents, entities, and utterances
  - • Train, evaluate, deploy, and test a language model
  - • Optimize, backup, and recover language models
  - • Consume a language model from a client application
  - • Create and manage a custom question answering project
  - • Train, test, and publish a knowledge base
  - • Create multi-turn conversations
  - • Add alternate phrasing and chit-chat
  - • Export a knowledge base
  - • Create a multi-language question answering solution
  - • Implement custom translation

6. Implement knowledge mining and information extraction solutions (15–20%)
- Implement an Azure AI Search solution
  - • Provision an Azure AI Search resource, index, and skillset
  - • Create data sources and indexers
  - • Implement custom skills
  - • Query an index with syntax, sorting, and filtering
  - • Manage Knowledge Store projections
  - • Implement semantic and vector store solutions
- 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 custom document models
  - • Create a composed document model
- Extract information with Azure AI Content Understanding
  - • Create an OCR pipeline
  - • Summarize, classify, and detect document attributes
  - • Extract entities, tables, and images from documents
  - • Process and ingest documents, images, videos, and audio