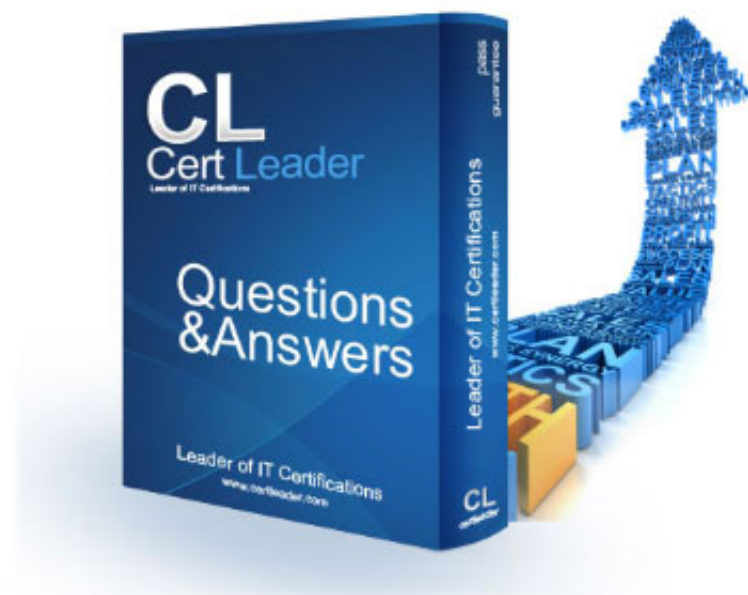


AI-901 Dumps

Microsoft Azure AI Fundamentals (Updated Version)

<https://www.certleader.com/AI-901-dumps.html>



NEW QUESTION 1

HOTSPOT

Select the answer that correctly completes the sentence.

Answer Area

Ensuring that human reviewers oversee AI-generated decisions and remain responsible for the final output is an example of the Microsoft responsible AI principle of

▼

accountability

fairness

privacy and security

transparency

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

The completed sentence is:

Ensuring that human reviewers oversee AI-generated decisions and remain responsible for the final output is an example of the Microsoft responsible AI principle of accountability.

Accountability means people and organizations remain responsible for AI systems and their effects. Human review and responsibility for final decisions are examples of accountability.

The other options are incorrect:

fairness focuses on avoiding bias and treating people fairly.

privacy and security focuses on protecting data and restricting access.

transparency focuses on explaining AI use, capabilities, and limitations.

NEW QUESTION 2

What are two purposes of instructions when prompting a generative AI model? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. defines constraints on the model's responses
- B. defines the agent's role and behavior
- C. defines the Azure region where inference occurs
- D. selects which model to use
- E. defines the tokens per minute (TPM) allocation for the model

Answer: AB

NEW QUESTION 3

HOTSPOT

You are developing a voice application that listens for spoken commands and converts them into text by using Azure Speech in Foundry Tools.

How should you complete the Python code? To answer, select the appropriate option in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

```
import azure.cognitiveservices.speech as speechsdk
...
speech_config = speechsdk.SpeechConfig(subscription=key, region=region)
recognizer = speechsdk.SpeechRecognizer(speech_config=speech_config)
```

▼

recognizer.recognize_once()

recognizer.speak_text_async("Ready")

recognizer.start_continuous_recognition()

recognizer.start_keyword_recognition()

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

The correct Python method is:

```
recognizer.recognize_once()
```

Completed code:

```
import azure.cognitiveservices.speech as speechsdk
```

```
speech_config = speechsdk.SpeechConfig(subscription=key, region=region)
```

```
recognizer = speechsdk.SpeechRecognizer(speech_config=speech_config)
```

```
recognizer.recognize_once()
```

Microsoft's Azure Speech documentation for Foundry Tools explains that Speech to text is used for real-time speech recognition and converting spoken audio into text. The Python Speech SDK uses a SpeechRecognizer object for recognition from audio input, such as a microphone.

Why the other options are incorrect:

`recognizer.speak_text_async("Ready")` is incorrect because speaking text is text-to-speech, not speech-to-text recognition.

`recognizer.start_continuous_recognition()` can be used for continuous recognition, but the code shown is asking for the basic method to recognize spoken input and convert it to text from the SpeechRecognizer.

`recognizer.start_keyword_recognition()` is used for keyword/wake-word recognition, not general speech-to-text transcription of spoken commands.

Therefore, the correct answer is:

```
recognizer.recognize_once()
```

NEW QUESTION 4

You need to build an AI solution that generates marketing email drafts based on a short description of a product and its target audience.

Which AI workload should you use?

- A. generative AI
- B. computer vision
- C. text classification
- D. speech recognition

Answer: A

NEW QUESTION 5

You have an Azure subscription.

You need to use Azure Content Understanding in Foundry Tools to extract structured data from invoices.

What should you provision?

- A. an Azure OpenAI resource
- B. a Microsoft Foundry resource
- C. A Microsoft Foundry project
- D. an Azure AI Search service

Answer: B

NEW QUESTION 6

You have a Microsoft Foundry project that contains a vision-enabled model deployment.

You need to develop an application that sends a message containing text and an image URL. The solution must ensure the quickest response time.

Which message structure should you include in the request?

- A. a user message that includes only a text item and sends an image item in a separate request
- B. a system message that includes both a text item and an image item in the content array
- C. a system message that includes only a text item and sends an image item in a separate request
- D. a user message that includes both a text item and an image item in the content array

Answer: D

Explanation:

For a vision-enabled model, Microsoft documentation shows that multimodal prompts can include both text and image content in the same user message content array. Azure OpenAI vision models accept multimodal image-and-text input and return natural language responses.

The correct request structure is a user message with a content array containing both items, for example:

```
{
  "role": "user",
  "content": [
    {"type": "input_text", "text": "What is in this image?"},
    {"type": "input_image", "image_url": image_url}
  ]
}
```

This avoids sending separate requests and is therefore the best choice for quickest response time.

A and C are incorrect because they send the text and image separately.

B is incorrect because the image/question should be sent as a user message, while system messages are used for instructions and behavior.

NEW QUESTION 7

You are developing an AI-powered customer support application.

Which task is an example of the Microsoft responsible AI principle of inclusiveness?

- A. Provide explanations about how predictions are generated.
- B. Design the interface to support multiple languages and screen readers.
- C. Evaluate model outputs across demographic groups to reduce bias.
- D. Encrypt stored customer data and restrict access by using role-based controls.

Answer: B

NEW QUESTION 8

HOTSPOT

Select the answer that correctly completes the sentence.

Answer Area

The Microsoft responsible AI principle of transparency requires that AI systems

be explainable to users

protect sensitive user data

reduce bias in decisions

require human oversight

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

The Microsoft responsible AI principle of transparency requires that AI systems

be explainable to users

protect sensitive user data

reduce bias in decisions

require human oversight

NEW QUESTION 9

DRAG DROP

You are developing an application that extracts structured information from different types of content by using Azure Content Understanding in Foundry Tools. You need to extract scanned invoices in the PDF format and voicemail recordings in the WAV format.

Which type of analyzer should you use for each content type? To answer, drag the appropriate analyzer types to the correct content types. Each analyzer type may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Analyzer Types	Answer Area
audio analyzer	Scanned invoices:
document analyzer	
image analyzer	
video analyzer	Voice mail recordings:

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Analyzer Types	Answer Area
audio analyzer	Scanned invoices: document analyzer
document analyzer	
image analyzer	
video analyzer	Voice mail recordings: audio analyzer

NEW QUESTION 10

HOTSPOT

Select the answer that correctly completes the sentence.

Answer Area

defines which fields to extract when analyzing content

- A keyword list
- Optical character recognition (OCR)-only processing
- A schema
- A synchronous API call

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

defines which fields to extract when analyzing content

- A keyword list
- Optical character recognition (OCR)-only processing
- A schema
- A synchronous API call

NEW QUESTION 10

HOTSPOT

Select the answer that correctly completes the sentence.

Answer Area

To define an agent's role and behaviors, you must configure a for the agent.

- deployment slot
- embedding index
- fine-tuning job
- system prompt

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

To define an agent's role and behaviors, you must configure a for the agent.

- deployment slot
- embedding index
- fine-tuning job
- system prompt

NEW QUESTION 11

You have a Microsoft Foundry project that contains a vision-enabled model deployment. You are developing an application that sends images to the model. You need to ensure that the model can analyze the images.

In which two formats can you provide the images? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. a JSON document that describes the image content
- B. a UTF-8 encoded text description of the image

- C. a publicly accessible URL of the image
- D. a base64 encoded image data string

Answer: CD

NEW QUESTION 12

HOTSPOT

Select the answer that correctly completes the sentence.

Answer Area

An AI workload that produces new content based on user input is an example of

content understanding

generative AI

information extraction

text analysis

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

An AI workload that produces new content based on user input is an example of

content understanding

generative AI

information extraction

text analysis

NEW QUESTION 13

You have a Microsoft Foundry project that contains a generative AI model deployment. You test the model by using the Foundry playground. You need to develop an application that sends requests to the deployed model. Which information must the application include to call the model?

- A. The model training dataset
- B. The Foundry project display name
- C. The exported playground session history
- D. The model endpoint and authentication credentials

Answer: D

Explanation:

To call a deployed Azure OpenAI model from an application, the app must know the service endpoint and authenticate its request. Microsoft documentation states that Azure OpenAI supports API key authentication or Microsoft Entra ID authentication, and API key authentication requires including the API key in the request. Microsoft quickstart guidance also states that to successfully make a call against Azure OpenAI, you need an endpoint and a key. The application does not need the model training dataset, the Foundry project display name, or exported playground session history to call the deployed model.

NEW QUESTION 18

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