

Exam Questions AI-901

Microsoft Azure AI Fundamentals (Updated Version)

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NEW QUESTION 1

You are using the Azure Speech SDK to develop a Python application that supports real-time spoken conversations. Which Azure speech class should you use to configure the connection to the Azure Speech service?

- A. AudioConfig
- B. SpeechSynthesizer
- C. AuditOutputConfig

Answer: C

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

For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Answer Area

Statements	Yes	No
Fairness can be achieved by focusing solely on improving the overall accuracy of an AI model.	☐	☐
Evaluating AI system outputs to identify and reduce bias across demographic groups supports fairness.	☐	☐
Ensuring fairness for an AI system means that all users always receive the same output from the system.	☐	☐

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Statements	Yes	No
Fairness can be achieved by focusing solely on improving the overall accuracy of an AI model.	☐	☒
Evaluating AI system outputs to identify and reduce bias across demographic groups supports fairness.	☒	☐
Ensuring fairness for an AI system means that all users always receive the same output from the system.	☐	☒

NEW QUESTION 4

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 5
HOTSPOT

For each of the following statements, select Yes if the statement is true. Otherwise, select No.
NOTE: Each correct selection is worth one point.

Answer Area

Statements	Yes	No
An AI generative model is retrained before performing each user request.	☐	☐
An AI agent responds by copying and pasting answers stored in a database.	☐	☐
An AI agent uses a generative AI model to establish actions based on user input.	☐	☐

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Statements

An AI generative model is retrained before performing each user request.

Yes

☐

No

☒

An AI agent responds by copying and pasting answers stored in a database.

☐☒

An AI agent uses a generative AI model to establish actions based on user input.

☒☐

NEW QUESTION 6

HOTSPOT

Select the answer that correctly complete the sentence.

Answer Area

The _____ is used for comparing and deploying a wide range of models for generative AI development in Microsoft Foundry.

- Model catalog
- Monitor page
- Service endpoints page
- Solution templates page

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

The _____ is used for comparing and deploying a wide range of models for generative AI development in Microsoft Foundry.

- Model catalog
- Monitor page
- Service endpoints page
- Solution templates page

NEW QUESTION 7

HOTSPOT

Select the answer that correctly completes the sentence.

Answer Area

When using the OpenAI Responses API and a vision-enabled model, you can include

an image in a request by providing the image as

- a base64-encoded image data
- a CSV file attachment
- an MP4 video stream
- a shared access signature (SAS) token

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

When using the OpenAI Responses API and a vision-enabled model, you can include an image in a request by providing the image as

a base64-encoded image data
a CSV file attachment
an MP4 video stream
a shared access signature (SAS) token

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

⋮ audio analyzer

⋮ document analyzer

⋮ image analyzer

⋮ video analyzer

Answer Area

Scanned invoices:

Voicemail recordings:

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Analyzer Types

audio analyzer

document analyzer

image analyzer

video analyzer

Answer Area

Scanned invoices

document analyzer

Vocicemail recordings

audio analyzer

NEW QUESTION 10

HOTSPOT

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE:Each correct selection is worth one point.

Answer Area

Statements

Generating a response to a user prompt occurs during the inference stage.

A generative AI model generates responses by copying stored documents directly from the model's training data.

A generative AI model produces output by predicting the next token based on patterns learned from the model's training data.

Yes

No

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Statements

Generating a response to a user prompt occurs during the inference stage.

A generative AI model generates responses by copying stored documents directly from the model's training data.

A generative AI model produces output by predicting the next token based on patterns learned from the model's training data.

Yes

No

NEW QUESTION 10

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