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Microsoft AI-901 Exam Syllabus Topics:

Section	Weight	Objectives
Topic 1: Describe fundamental principles of machine learning on Azure (15-20%)	15-20%	- Describe core machine learning concepts • 1. Identify features and labels for training data in machine learning • 2. Describe how training and validation datasets are used in machine learning - Identify common machine learning techniques • 1. Identify features of deep learning techniques • 2. Identify clustering machine learning scenarios • 3. Identify classification machine learning scenarios • 4. Identify regression machine learning scenarios - Describe Azure Machine Learning capabilities • 1. Describe model management and deployment capabilities in Azure Machine Learning • 2. Describe capabilities of automated machine learning • 3. Describe data and compute services for data science and machine learning

Topic 2: Describe features of computer vision workloads on Azure (15-20%)	15-20%	- Identify Azure tools and services for computer vision tasks • 1. Describe capabilities of the Azure AI Vision service • 2. Describe capabilities of the Azure AI Face detection service - Identify common types of computer vision solution • 1. Identify features of semantic segmentation solutions • 2. Identify features of face detection and identification solutions • 3. Identify features of image classification solutions • 4. Identify features of optical character recognition (OCR) solutions • 5. Identify features of image analysis solutions • 6. Identify features of object detection solutions
Topic 3: Describe features of generative AI workloads on Azure (20-25%)	20-25%	- Identify generative AI services and capabilities in Microsoft Azure • 1. Describe features and capabilities of Azure AI Foundry • 2. Describe features and capabilities of Azure OpenAI service • 3. Describe features and capabilities of Azure AI Foundry model catalog - Identify features of generative AI solutions • 1. Identify features of generative AI models • 2. Identify responsible AI considerations for generative AI • 3. Identify common scenarios for generative AI
Topic 4: Describe features of Natural Language Processing (NLP) workloads on Azure (15-20%)	15-20%	- Identify features of common NLP workload scenarios • 1. Identify features and uses for sentiment analysis • 2. Identify features and uses for language modeling • 3. Identify features and uses for speech recognition and synthesis • 4. Identify features and uses for translation • 5. Identify features and uses for entity recognition • 6. Identify features and uses for key phrase extraction - Identify Azure tools and services for NLP workloads • 1. Describe capabilities of the Azure AI Language service • 2. Describe capabilities of the Azure AI Speech service

Topic 5: Describe Artificial Intelligence workloads and considerations (15-20%)	15-20%	- Identify guiding principles for responsible AI • 1. Describe considerations for privacy and security in an AI solution • 2. Describe considerations for transparency in an AI solution • 3. Describe considerations for fairness in an AI solution • 4. Describe considerations for accountability in an AI solution • 5. Describe considerations for inclusiveness in an AI solution • 6. Describe considerations for reliability and safety in an AI solution - Identify features of common AI workloads • 1. Identify features of document intelligence workloads • 2. Identify features of generative AI workloads • 3. Identify features of content moderation and moderation workloads • 4. Identify features of Natural Language Processing (NLP) workloads • 5. Identify features of computer vision workloads • 6. Identify features of knowledge mining workloads
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Free PDF Quiz 2026 Microsoft AI-901: Microsoft Azure AI Fundamentals – Efficient Latest Questions

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Microsoft Azure AI Fundamentals Sample Questions (Q58-Q63):

NEW QUESTION # 58

You have a Microsoft Foundry project that contains a model deployment.

You are developing an application that sends an image and a user question to the model.

You need to send both text and image content in the same request so the model can return an answer.

How should you complete the Python code? To answer, drag the appropriate values to the correct targets. Each value 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.

Values

- input_image
- input_text
- input_url
- output_image
- output_text

Answer Area

```

input=[
  {
    "role": "user",
    "content": [
      {"type": "text", "text": "What is in this image? Provide 3 bullet points."},
      {"type": "image_url", "image_url": image_url}
    ]
  }
]
print(response.output_text)

```

Microsoft

Answer:

Explanation:

Values

- input_image
- input_text
- input_url
- output_image
- output_text

Answer Area

```

input=[
  {
    "role": "user",
    "content": [
      {"type": "text", "text": "What is in this image? Provide 3 bullet points."},
      {"type": "image_url", "image_url": image_url}
    ]
  }
]
print(response.output_text)

```

Microsoft

NEW QUESTION # 59

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

Microsoft

Answer:

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

Microsoft

Explanation:



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 .

Azure OpenAI / Microsoft Foundry vision requests support image input as an input_image item. The image can be provided by URL or as base64-encoded image data in the request. Microsoft documentation for Azure OpenAI batch examples also lists Base64 encoded image and Image URL as supported input patterns for Responses API requests.

The other options are incorrect:

a CSV file attachment is not an image input format for vision analysis.

an MP4 video stream is video content, not an image format.

a shared access signature (SAS) token is only an access token for a protected resource; it is not the image data itself.

NEW QUESTION # 60

You are developing a web app that processes invoices to calculate expenses.

You need to extract structured fields, including nested values, from the invoices by using a defined schema.

What should you use?

- A. an optical character recognition (OCR)-only document processing pipeline
- B. a transcription workflow in Azure Speech in Foundry Tools
- C. an Azure AI Search service
- D. an analyzer in Azure Content Understanding in Foundry Tools

Answer: D

Explanation:

The requirement is to extract structured fields, including nested values, from invoices by using a defined schema . In Azure Content Understanding, an analyzer is the processing unit that defines how content is analyzed, what information is extracted, and how the output is structured, including JSON fields.

Microsoft's Content Understanding document solutions documentation states that Content Understanding uses customizable analyzers to extract essential information, fields, and relationships from documents and forms.

Microsoft's quickstart also shows invoice processing with the prebuilt-invoice analyzer to extract structured data from an invoice document.

Why the other options are incorrect:

A). transcription workflow in Azure Speech is for converting audio to text, not invoice field extraction.

B). OCR-only document processing can extract text but does not meet the requirement for structured fields and nested values by schema.

D). Azure AI Search is for indexing and querying content, not defining invoice extraction schemas.

Therefore, the correct answer is C. an analyzer in Azure Content Understanding in Foundry Tools .

NEW QUESTION # 61

You are designing a system that will generate insurance quotes automatically.

Match the Microsoft responsible AI principles to the appropriate requirements.

To answer, drag the appropriate principle from the column on the left to its requirement on the right. Each principle may be used once, more than once, or not at all.

NOTE: Each correct match is worth one point.

Answer:

Explanation:

Principles

Accountability	Fairness
Inclusiveness	Privacy and security
Reliability and safety	Transparency

Answer Area

The decision-making process must be recorded so that staff can identify the reasoning behind a particular quote.

A customer's personal information must be visible only to staff who are involved in the decision-making process.

The system must be accessible to customers who use screen readers or other assistive technology.

Microsoft

Transparency
Privacy and security
Inclusiveness

Explanation:

Requirement

Principle

The decision-making process must be recorded so that staff can identify the reasoning behind a particular quote.

Transparency

A customer's personal information must be visible only to staff who are involved in the decision-making process.

Privacy and security

The system must be accessible to customers who use screen readers or other assistive technology.

Inclusiveness

Microsoft's Responsible AI framework defines six core principles: fairness, reliability and safety, privacy and security, inclusiveness, transparency, and accountability.

The first requirement maps to Transparency because personnel must be able to understand and review how the AI system arrived at an insurance quote. Transparency concerns making AI behavior, capabilities, limitations, and decision processes understandable.

Recording the decision-making process provides the traceability required to explain a particular result.

The second requirement maps to Privacy and security. Restricting customer information to authorized staff directly implements least-privilege access and protects confidential personal data from unauthorized disclosure. Microsoft specifically associates this principle with respecting data boundaries and safeguarding information handled by AI systems.

The third requirement maps to Inclusiveness. AI systems should accommodate the full range of people they serve, including individuals who rely on assistive technologies. Support for screen readers and accessibility technologies ensures that users with disabilities are not excluded from interacting with the system. Microsoft explicitly connects inclusive AI design with accessibility considerations for people with disabilities.

NEW QUESTION # 62

Hotspot Question

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
Whisper models in Azure OpenAI are used to convert speech to text.	☐	☐
Embedding models in Azure OpenAI are used to convert text into numeric vectors.	☐	☐
GPT-4.1 models in Azure OpenAI are used to generate images based on natural language prompts.	☐	☐

Microsoft

Answer:

Explanation:

Answer Area		Yes	No
Statements			
Whisper models in Azure OpenAI are used to convert speech to text.	☒	☐	
Embedding models in Azure OpenAI are used to convert text into numeric vectors.	☒	☐	
GPT-4.1 models in Azure OpenAI are used to generate images based on natural language prompts.	☐	☒	

Explanation:

Box 1: Yes

Yes - Whisper models in Azure OpenAI Service are used to convert speech to text.

The Whisper model is a speech to text model from OpenAI that you can use to transcribe or translate audio files. The model is trained on a large dataset of English audio and text. The model is optimized for transcribing audio files that contain speech in English.

Box 2: Yes

Yes - Embedding models in Azure OpenAI Service are used to convert text into numeric vectors.

Azure OpenAI Embeddings are a way to convert text data into numerical representations that capture semantic meaning. This allows you to find similar text content or compare documents based on their ideas, even if the wording differs.

Embeddings: a set of models that can convert text into numerical vector form to facilitate text similarity.

Box 3: No

GPT-4.1 models can understand and generate natural language or code. The most capable and cost effective model in the GPT-4.1 family is GPT-4.1 Turbo, which has been optimized for chat and works well for traditional completions tasks as well. GPT-4.1 Turbo is available for use with the Chat Completions API.

Reference:

<https://learn.microsoft.com/en-us/azure/ai-services/speech-service/whisper-overview>

<https://learn.microsoft.com/en-us/azure/ai-services/openai/concepts/models>

NEW QUESTION # 63

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