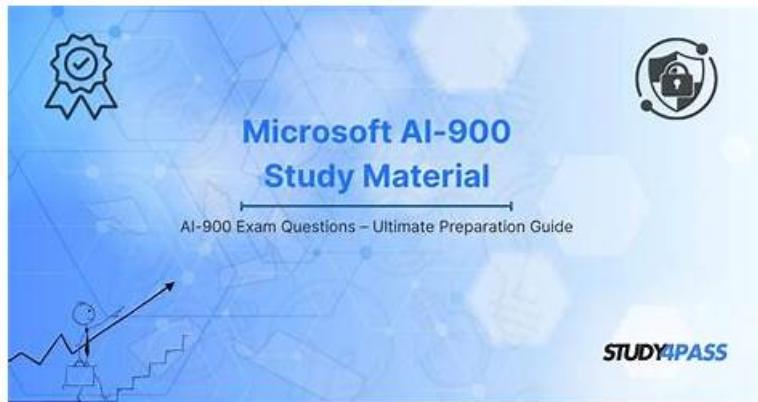


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Microsoft Azure AI Fundamentals Sample Questions (Q111-Q116):

NEW QUESTION # 111

To complete the sentence, select the appropriate option in the answer area.

Answer:

Explanation:

Explanation:

Reliability and safety: To build trust, it's critical that AI systems operate reliably, safely, and consistently under normal circumstances and in unexpected conditions. These systems should be able to operate as they were originally designed, respond safely to unanticipated conditions, and resist harmful manipulation.

Reference:

<https://docs.microsoft.com/en-us/learn/modules/responsible-ai-principles/4-guiding-principles> AI systems should perform reliably and safely. For example, consider an AI-based software system for an autonomous vehicle; or a machine learning model that diagnoses patient symptoms and recommends prescriptions. Unreliability in these kinds of system can result in substantial risk to human life.

<https://docs.microsoft.com/en-us/learn/modules/get-started-ai-fundamentals/7-understand-responsible-ai>

NEW QUESTION # 112

To complete the sentence, select the appropriate option in the answer area.

Answer:

Explanation:

Explanation:

NEW QUESTION # 113

Which format should you use to send requests to a REST API endpoint for Azure OpenAI?

- A. YAML
- B. XML
- C. JSON
- D. CSV

Answer: C

Explanation:

When interacting with the Azure OpenAI REST API, requests and responses are structured using the JSON format. According to the Microsoft Learn documentation on the Azure OpenAI REST API, JSON is the required format for sending prompts, configuration parameters (such as temperature, max_tokens, or top_p), and metadata to the API endpoint.

A typical request to an Azure OpenAI endpoint (for example, /openai/deployments/{model-name}/chat/completions?api-version=2024-02-01) includes a JSON body similar to the following:

```
{  
  "messages": [  
    {"role": "system", "content": "You are an assistant."},  
    {"role": "user", "content": "Write a JavaScript function to add two numbers."}  
  ],  
  "max_tokens": 200,  
  "temperature": 0.7  
}
```

This JSON format allows for structured data exchange between the client and the server, ensuring that key- value pairs are properly parsed by the API.

* Option A (CSV): Used for storing tabular data, not suitable for API communication.

* Option C (XML): Though historically used in web services, Microsoft's modern APIs, including Azure OpenAI, rely on JSON.

* Option D (YAML): Common in configuration files but not for REST API payloads.

Therefore, per official Microsoft documentation and the AI-900 study guide, the correct and verified answer is B. JSON, as it is the standard format required when sending requests to the Azure OpenAI REST API endpoint.

NEW QUESTION # 114

Match the facial recognition tasks to the appropriate questions.

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

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Reference:

<https://azure.microsoft.com/en-us/services/cognitive-services/face/#features>

NEW QUESTION # 115

Select the answer that correctly completes the sentence.

Answer:

Explanation:

□ Explanation:

The correct answer is "An embedding."

In the context of large language models (LLMs) such as GPT-3, GPT-3.5, or GPT-4, an embedding refers to a multi-dimensional numeric vector representation assigned to each word, token, or phrase. According to the Microsoft Azure AI Fundamentals (AI-900) study guide and Microsoft Learn documentation for Azure OpenAI embeddings, embeddings are used to represent textual or semantic meaning in a numerical form that a machine learning model can process mathematically.

Each embedding captures the semantic relationships between words. Words or tokens with similar meanings (for example, "car" and "automobile") are represented by vectors that are close together in the multi-dimensional space, while unrelated words (like "tree" and "laptop") are farther apart. This vector representation enables the model to understand context, similarity, and relationships between different pieces of text.

Embeddings are fundamental in tasks such as:

* Semantic search: Finding documents or sentences with similar meaning.

* Clustering: Grouping related concepts together.

* Recommendation systems: Suggesting similar content based on text meaning.

* Contextual understanding: Helping generative models produce coherent and context-aware text.

Option review:

* Attention: A mechanism used within transformers to focus on relevant parts of input sequences but not a representation of words.

* A completion: Refers to the generated text output from a model, not the internal representation.

* A transformer: The architecture that powers models like GPT, not the vector representation of tokens.

Therefore, the correct term for a multi-dimensional vector assigned to each word or token in a large language model (LLM) is An embedding, which represents how meaning is numerically encoded and compared within language models.

NEW QUESTION # 116

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