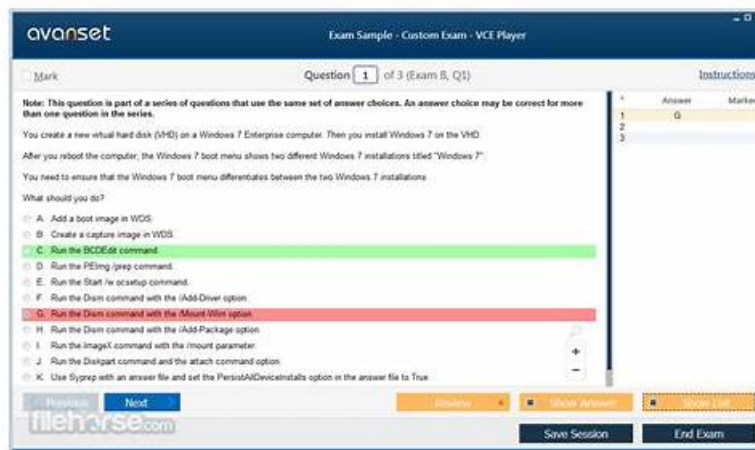


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Microsoft Operationalizing Machine Learning and Generative AI Solutions Sample Questions (Q32-Q37):

NEW QUESTION # 32

A real-time endpoint experiences sporadic latency spikes. Investigation reveals instances scale down to zero during inactivity. You need to reduce latency without significantly increasing cost.

What should you configure?

- A. Increase timeout settings
- B. Reduce logging
- C. Switch to batch endpoint
- D. Set minimum instance count

Answer: D

Explanation:

Cold starts occur when instances scale down to zero and must restart to handle new requests.

Setting a minimum instance count ensures that at least one instance is always running, reducing latency spikes. Increasing timeouts does not address the root cause of cold start delays.

NEW QUESTION # 33

You are fine-tuning a base language model to analyze customer feedback.

You label examples of support tickets. You must improve classification accuracy by configuring and fine-tuning the base model in Microsoft Foundry.

You need to configure and run fine-tuning.

What should you do first?

- A. Format the dataset as a JSONL file with prompt-completion pairs and upload the file.
- **B. Enable tracing for all inference calls in the evaluation pipeline.**
- C. Deploy the base model to an online endpoint before starting fine-tuning.
- D. Use prompt flow to generate multiple prompt templates for evaluation.

Answer: B

Explanation:

In Microsoft Foundry, when configuring and running a fine-tuning job for analyzing customer feedback (e.g., classifying support tickets), you should first enable tracing for all inference calls in the evaluation pipeline.

Tracing is a critical step in the "Evaluate" phase of the fine-tuning workflow, allowing you to capture input/output examples, identify the root cause of classification errors, monitor latency, and analyze model behavior before and after training.

Note:

To fine-tune a model and evaluate it effectively, you should follow this sequence:

1. Enable Tracing for Initial Baseline

Before you fine-tune, you should indeed enable tracing for all inference calls in your existing evaluation pipeline.

Purpose: This creates a clear "paper trail" of how the base model is currently failing.

Benefit: Tracing captures the exact inputs, outputs, and intermediate steps. By analyzing these traces, you can identify if the low accuracy is due to the model not following instructions, missing domain-specific jargon, or struggling with specific ticket categories.

Setup: You can enable Automatic Tracing (currently in preview) in Foundry to log these details to Application Insights without changing your code.

2. Configure and Run Fine-Tuning

Once you have analyzed the traces and prepared your labeled dataset, you can proceed with the fine-tuning job.

3. Continuous Evaluation

After the job completes, you must compare the fine-tuned model against your original traces Reference:

<https://devblogs.microsoft.com/foundry/a-developers-guide-to-fine-tuning-gpt-4o-for-image-classification-on-azure-ai-foundry>

NEW QUESTION # 34

Hotspot Question

A team is building a generative AI agent by using Retrieval-Augmented Generation (RAG) in Microsoft Foundry.

The team frequently updates prompt content. The team must be able to track changes across contributors while avoiding full application redeployments.

You need to enable rapid prompt iteration with traceability. Applications consuming the agent must be able to use updated prompts without requiring redeployment.

What should you configure for each requirement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

NEW QUESTION # 35

You manage a Microsoft Foundry project. You build a multi-turn chatbot application.

You plan to filter your traces to identify issues while observing how the application is responding.

The solution must not use an external knowledge base.

You need to select an evaluation metric.

Which built-in evaluator should you use?

- A. RelevanceEvaluator
- B. SimilarityEvaluator
- **C. CoherenceEvaluator**
- D. QAEvaluator

Answer: C

Explanation:

In a Microsoft Foundry project for a multi-turn chatbot, the best built-in evaluator to use-- especially when you want to avoid an external knowledge base--is the Coherence evaluator or a combination of Agentic Evaluators.

Because your application is multi-turn, you need to observe how the AI maintains a logical flow and resolves user intent over several exchanges. Since you specifically want to avoid an external knowledge base (eliminating "Groundedness" or "Retrieval" metrics), you should focus on quality metrics that only require the conversation history itself.

Reference:

<https://www.cekura.ai/blogs/why-single-turn-testing-falls-short-in-evaluating-conversational-ai>

NEW QUESTION # 36

A team develops and manages a conversational assistant by using Microsoft Foundry.

The team must be able to validate that the assistant does not produce hateful responses before the application is exposed to any users.

You need to evaluate the model output for hateful responses as part of a repeatable validation process.

Which evaluator should you configure first?

- A. Groundedness
- B. Protected material
- **C. Content safety**
- D. Indirect attacks

Answer: C

Explanation:

You should use the Hate and Unfairness Evaluator (a specific type of Content Safety Evaluator) in Microsoft Azure AI Foundry. This tool is designed to identify and measure the severity of hateful content toward protected groups, ensuring your assistant aligns with responsible AI standards.

Why Use the Content Safety Evaluator?

Targeted Detection: It identifies language attacking or discriminating against people based on race, religion, gender, and other identity factors.

Severity Scoring: It provides a numerical severity score (often 0-7) to help you understand the level of risk in a response.

Reasoning: It often includes a "reason" or "explanation" column that explains why a specific response was flagged.

Multilingual Support: These models are trained to work across multiple languages, including English, Spanish, French, and Japanese.

Reference:

<https://arize.com/blog/evaluating-and-improving-ai-agents-at-scale-with-microsoft-foundry>

NEW QUESTION # 37

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