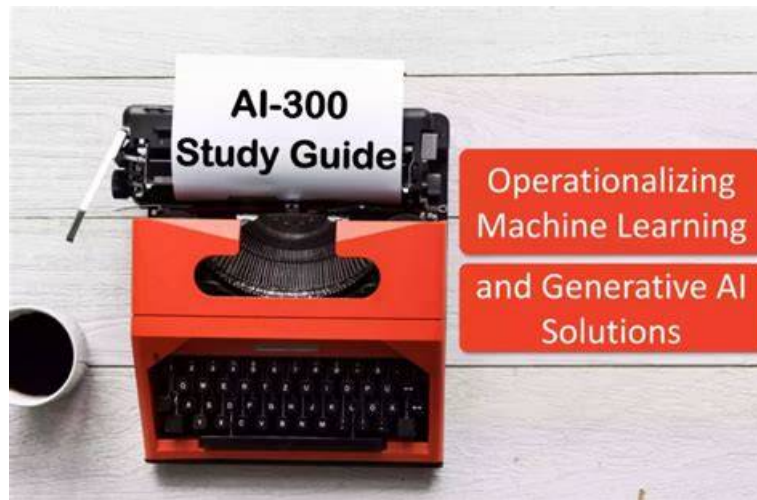


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Microsoft AI-300 Exam Syllabus Topics:

Section	Objectives
Operationalizing machine learning solutions	- ML lifecycle management • 1. Model versioning and registry usage • 2. Model training and evaluation in Azure Machine Learning - Deployment and monitoring • 1. Deploy models to endpoints • 2. Monitor performance and drift - Scalability and performance optimization • 1. Cost optimization strategies • 2. Autoscaling AI workloads
Implement secure and scalable AI systems	- Security and governance • 1. Identity and access management for AI services • 2. Data privacy and compliance considerations - RAG (Retrieval Augmented Generation) solutions • 1. Vector search integration • 2. Knowledge grounding and retrieval design
Design and implement generative AI solutions	- Large language model integration • 1. Use Azure OpenAI Service capabilities • 2. Prompt engineering and prompt flow design

- Responsible AI design

- 1. Fairness, transparency, and accountability considerations
- 2. Responsible AI mitigation strategies

Plan and design AI solutions using Azure AI services

- Requirements gathering and solution architecture

- 1. Select appropriate Azure AI services
- 2. Identify business requirements for AI solutions

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Microsoft Operationalizing Machine Learning and Generative AI Solutions Sample Questions (Q158-Q163):

NEW QUESTION # 158

An organization maintains separate Azure Machine Learning workspaces for development and production. Both environments must use the same validated assets without duplicating them. Assets must be shared across workspaces while maintaining centralized governance and version control. You need to enable reuse of assets across workspaces without copying them. What should you do?

- **A. Publish the asset to an Azure Machine Learning registry.**
- B. Publish the asset as a pipeline component.
- C. Enable workspace-level Git integration and sync assets between repositories.
- D. Create a shared Azure Machine Learning environment that includes the asset.

Answer: A

Explanation:

To share validated assets between development and production workspaces while maintaining centralized governance and version control, you should use Azure Machine Learning Registries.

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Unlike standard workspaces, registries are workspace-agnostic. They act as a central catalog that decouples assets from individual environments, allowing you to "promote" a model or environment from Dev to Prod without manual duplication or data drift.

Reference:

<https://learn.microsoft.com/en-us/azure/machine-learning/concept-machine-learning-registries-mlops>

NEW QUESTION # 159

A data science team plans to evaluate multiple hyperparameter values automatically while training a model in Azure Machine Learning.

The tuning process must run multiple training trials without manually modifying the training script for each run.

You need to automate hyperparameter tuning for the training job.

What should you do?

- A. Manually change hyperparameter values between training runs.
- B. Duplicate the training script for each parameter combination.
- **C. Create a tuning job that runs multiple trials with different parameter values.**
- D. Adjust hyperparameters after model deployment.

Answer: C

NEW QUESTION # 160

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear on the review screen.

You work in Microsoft Foundry with a prompt flow.

You must manually evaluate prompts and compare results across prompt variants.

You need to capture the inputs, outputs, token usage, and latencies for each flow run for the evaluation.

Solution: Use the prompt flow SDK to enable tracing for the flow before executing runs. Then run the flow to generate traceable results.

Does the solution meet the goal?

- A. No
- B. Yes

Answer: A

Explanation:

Enabling tracing via the prompt flow SDK alone does not guarantee that all four required dimensions - inputs, outputs, token usage, and latencies - are captured and surfaced in the Microsoft Foundry portal's trace viewer in a way that allows manual comparison across runs. While the prompt flow SDK does support tracing configuration, the portal-based Tracing activation is the complete, supported path for this specific capture requirement. The correct and complete solution as confirmed by the next question in this series is to use the Tracing toggle directly in the Microsoft Foundry portal for the project, then execute test runs. This portal-side Tracing feature is purpose-built to instrument all four dimensions and store them in a queryable trace store accessible through the Foundry interface.

Microsoft Learn Reference Topic: Enable tracing for prompt flows in Microsoft Foundry portal - Capturing run telemetry

NEW QUESTION # 161

You deploy a new model version to a managed online endpoint. You must test it with 10% traffic and automatically roll back if latency or error rate increases beyond threshold. What should you configure?

- A. Batch endpoint validation
- B. Separate endpoint for testing
- C. Traffic splitting with monitoring alerts
- D. Manual testing workflow

Answer: C

Explanation:

Traffic splitting enables controlled rollout of a new model version by directing a percentage of requests to it. Combined with monitoring alerts, it supports automated rollback when performance degrades. Separate endpoints lack built-in traffic management and do not provide seamless or automated rollback capabilities.

NEW QUESTION # 162

Drag and Drop Question

A team deploys a generative AI application that uses a model deployed in Microsoft Foundry. The application must support latency monitoring under production load.

You need to enable performance observability.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Enable performance observability

Set up the model endpoint in Foundry.

Enable logging.

Apply a term blocklist.

Generate token embeddings.

Configure monitoring metrics.

Answer Area



Answer:

Explanation:

Enable performance observability

Set up the model endpoint in Foundry.

Enable logging.

Apply a term blocklist.

Generate token embeddings.

Configure monitoring metrics.

Answer Area

Set up the model endpoint in Foundry.

Configure monitoring metrics.

Enable logging.

NEW QUESTION # 163

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It is universally accepted that the exam is a tough nut to crack for the majority of candidates, but the related AI-300 certification is of great significance for workers in this field so that many workers have to meet the challenge. Fortunately, you need not to worry about this sort of question any more, since you can find the best solution in this website--our AI-300 Training Materials. With our continued investment in technology, people and facilities, the future of our company has never looked so bright. with our excellent AI-300 exam questions, you will pass the AI-300 exam successfully.

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