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Microsoft Operationalizing Machine Learning and Generative AI Solutions Sample Questions (Q37-Q42):

NEW QUESTION # 37

You want to ensure ML pipelines produce identical results when executed in different regions or workspaces. Which factor is MOST critical to control for reproducibility?

- A. Versioned datasets and environments
- B. Same user identity
- C. Same compute SKU
- D. Same dataset name

Answer: A

Explanation:

Reproducibility across environments depends on consistent versioning of datasets and environments. Differences in data or dependencies can lead to inconsistent results even if compute resources are identical. Proper asset versioning ensures experiments can be reliably reproduced in any workspace or region.

NEW QUESTION # 38

Drag and Drop Question

A team manages prompts that are used by a generative AI application built on Microsoft Foundry.

Multiple developers contribute prompt updates, and changes must be reviewed and tracked over time.

The team requires that:

- Prompt changes are reviewed before being applied to the version in production.
- Previous prompt versions can be restored if issues occur.
- Prompt updates follow the same governance practices as the application code.

You need to implement a controlled process for managing and updating prompts in production.

How should you manage prompt updates to meet the requirements? To answer, move the appropriate actions to the correct requirements. You may use each action once, more than once, or not at all. You may need to move the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

□

Answer:

Explanation:

□

NEW QUESTION # 39

A team accidentally deploys an outdated model version due to incorrect tagging. You need to enforce strict deployment governance and version control. What should you implement?

- A. Rename models
- B. Use version pinning and approval workflows
- C. Increase logging
- D. Store models locally

Answer: B

Explanation:

Version pinning ensures that only specific, approved model versions are deployed, while approval workflows enforce governance. This prevents accidental deployment of outdated or unverified models. Simple naming conventions or tagging are error-prone and do not provide sufficient control.

NEW QUESTION # 40

A team develops multiple AI applications in Microsoft Foundry that rely on shared prompt templates. The team requires a centralized way to track, version, and reuse prompt content across projects. You need to recommend a solution to track and reuse prompt content. Which approach should you recommend?

- A. Register prompts as datasets in the Azure Machine Learning workspace.
- **B. Store prompts as versioned files in a Git repository.**
- C. Embed prompts directly in application configuration files.
- D. Persist prompts in Azure Blob Storage with folder-level organization.

Answer: B

Explanation:

In Microsoft Foundry, centralizing prompt templates in a Git repository (such as GitHub) is a recommended GenAIOps practice to ensure consistency, versioning, and reuse across multiple AI applications.

Storing prompts as versioned files in a Git repository is an excellent approach for Microsoft Foundry applications. It treats prompts like code (PromptOps), enabling clear audit trails, peer reviews via Pull Requests, and easy rollbacks.

To make this centralized system effective, you should consider these three components:

Centralized Repository: Use a single "Prompt Bank" repo where templates are stored in a structured format like JSON or YAML. Include metadata like model version, temperature, and input variables.

Prompt Registry / SDK: Develop a small internal utility (or use a tool like Azure AI Studio's Prompt Flow) that allows applications to fetch the "latest" or a "tagged" version of a prompt via API or as a Git submodule.

CI/CD Integration: Automate testing so that when a prompt file is updated, it triggers a "prompt evaluation" pipeline to ensure the change doesn't degrade AI performance across the dependent projects.

Reference:

<https://www.getmaxim.ai/articles/best-practices-for-prompt-management-in-ai-applications>

NEW QUESTION # 41

An Azure Machine Learning workspace processes sensitive training data. The workspace must NOT be accessible from the public internet. You need to restrict network access. Which configuration should you implement?

- **A. Private endpoints**
- B. Service endpoints
- C. Network security groups
- D. Azure Firewall rules

Answer: A

Explanation:

To ensure an Azure Machine Learning (AML) workspace handling sensitive data is not accessible from the public internet, you must disable the Public Network Access flag and implement Private Endpoints. This configuration creates a private link between your Azure Virtual Network (VNet) and the workspace, ensuring traffic never traverses the public internet.

Reference:

<https://www.azadvertizer.net/azpolicyadvertizer/438c38d2-3772-465a-a9cc-7a6666a275ce.html>

NEW QUESTION # 42

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