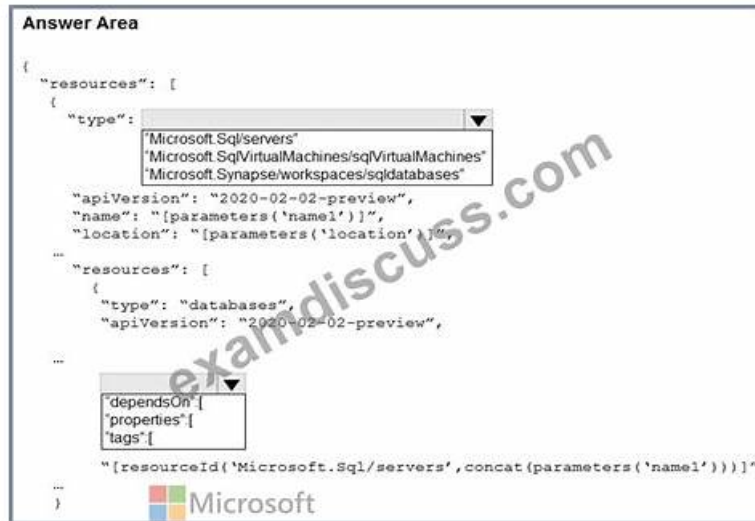


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## Microsoft Operationalizing Machine Learning and Generative AI Solutions Sample Questions (Q32-Q37):

### NEW QUESTION # 32

An Azure Machine Learning workspace contains multiple registered versions of a model that is used in production. An older model version must no longer be deployable, but it must remain available for compliance review and potential rollback. You need to change the state of the model version to meet the requirements. What should you do?

- A. Archive the model version.
- B. Archive the training dataset for the model version.
- C. Delete the model version.
- D. Unregister the model version.

Answer: A

Explanation:

To ensure that older Azure Machine Learning model versions are no longer deployable but remain available for reference or historical tracking, you should archive those specific versions.

How to Archive Model Versions

Archiving a model version effectively hides it from standard list queries and management interfaces, preventing accidental deployment while maintaining its metadata and files in the workspace.

Behavior of Archived Models:

Hidden by Default: They will no longer appear in the Azure Machine Learning Studio model list unless you explicitly filter for archived assets.

Referenceable: You can still reference and use an archived model version in existing workflows if you have its specific version number.

Restoreable: If you need to redeploy the model in the future, you can use the restore command to make it active again.

Reference:

<https://learn.microsoft.com/en-us/azure/machine-learning/how-to-manage-models>

### NEW QUESTION # 33

Your model requires access to external APIs using sensitive credentials during inference. You must ensure credentials are not exposed in code, logs, or environment variables. What should you implement?

- A. Hardcode credentials
- B. Store in config files
- C. Use Azure Key Vault with managed identity
- D. Encrypt credentials locally

**Answer: C**

Explanation:

Azure Key Vault with managed identity ensures secure access to sensitive credentials without exposing them in code or configuration. Managed identities eliminate the need for hardcoded secrets. Other approaches, such as config files or environment variables, increase the risk of accidental exposure.

### NEW QUESTION # 34

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

**Answer: D**

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 # 35

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 # 36

A data science team trains a classification model that predicts loan approval outcomes.

Before registering the model, the team must ensure the following:

- Predictions must not disproportionately impact protected groups.
- Prediction errors can be evaluated across different data segments.

You need to assess whether the model meets Responsible AI expectations.

Which two approaches should you use? Each correct answer presents part of the solution.

Choose two.

NOTE: Each correct selection is worth one point.

- A. Analyze error rates across the global cohort.
- **B. Analyze error rates across defined demographic cohorts.**
- C. Measure endpoint latency under load.
- D. Validate inference schema compatibility.
- **E. Evaluate feature importance for prediction transparency.**

**Answer: B,E**

Explanation:

[D]

To evaluate a trained loan classification model for Responsible AI expectations--ensuring no disproportionate impact on protected groups, evaluating error across segments, and verifying prediction transparency--you can employ SHAP (SHapley Additive exPlanations) values to assess feature importance.

This approach allows you to identify which variables (e.g., credit history, debt levels) drive the model's predictions, fostering trust and fairness.

Feature Importance for Transparency: Use SHAP (model-agnostic) or LIME (local approximations) to explain why the model approved or denied a loan. These techniques identify how each feature contributes to individual predictions.

[E]

To ensure a trained loan approval classification model meets responsible AI expectations-- specifically, that it does not disproportionately impact protected groups and that errors can be evaluated across segments--you should analyze error rates across defined demographic cohorts using Fairness-Aware Machine Learning metrics.

Reference:

<https://urfpublishers.com/journal/artificial-intelligence/article/view/explainable-aiml-testing-ensuring-transparency-accountability-and-compliance>

<https://timvero.com/blog/ethics-in-automated-lending-can-ai-make-fair-credit-decisions>

### NEW QUESTION # 37

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