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Microsoft Operationalizing Machine Learning and Generative AI Solutions Sample Questions (Q36-Q41):

NEW QUESTION # 36

A data science team completes multiple training runs within an experiment by using MLflow.

The team wants to store a selected model in Azure Machine Learning so that it can be versioned and deployed later.

The model must be versioned centrally for reuse across environments.

You need to version the trained model.

Which two actions should you perform? Each correct answer presents part of the solution.

Choose two.

NOTE: Each correct selection is worth one point.

- A. Tag the training experiment with a name.
- **B. Locate and capture the model artifacts from the outputs of the training run.**
- **C. Register the model in the Azure Machine Learning workspace.**
- D. Export the model files to local storage.

Answer: B,C

Explanation:

To set up versioning for a trained model in an Azure Machine Learning (Azure ML) workspace using MLflow, you must capture the model artifacts during the training run and then register the model into the centralized registry.

[A]

1. Capture Model Artifacts

During each training run, use the MLflow SDK to log the model. This ensures that all necessary files (the model binary, environment dependencies, and the MLmodel metadata) are stored as run outputs in the workspace.

Manual Logging: Use a flavor-specific method like `mlflow.sklearn.log_model(model, "model_path")` within an active run.

Automatic Logging: Call `mlflow.autolog()` before starting your training. This automatically captures metrics, parameters, and the model artifacts for supported frameworks.

Artifact Location: Once logged, artifacts are typically found in the `outputs/` folder of the specific run, accessible via the Azure Machine Learning Studio.

[B]

2. Register the Model

After identifying the best-performing run, you register it to the Model Registry. This creates a named, versioned entity that can be accessed across different environments for deployment.

To set up versioning for an MLflow model in Azure Machine Learning (Azure ML) that is accessible across different environments, you should use a centralized Azure ML Registry. While a standard Azure ML Workspace acts as an MLflow server for individual experiments, an Azure ML Registry is the specifically designed feature for sharing models, environments, and components across multiple workspaces and environments within an Azure tenant.

3. Centralized Reuse

By registering the model in the workspace's registry, you establish a single source of truth. You can then load this specific version in any environment (e.g., staging or production) using its registry URI: `models:/<model_name>/<version_or_alias>`.

Incorrect:

[Not D]

Must use an Azure ML Registry (Central).

Reference:

<https://mlflow.org/docs/latest/ml/model-registry/>

NEW QUESTION # 37

You have an Azure subscription named Sub1 that contains an Azure Machine Learning workspace named Workspace1.

Workspace1 contains the following assets:

- a registered MLflow model named Model1
- an online endpoint named Endpoint1

Outbound network connectivity from Endpoint1 is blocked.

You need to deploy Model1 to Endpoint1.

What should you do first?

- **A. In Workspace1, create a package.**
- B. In Sub1, create an Azure Machine Learning registry.
- C. In Sub1, create a private endpoint.
- D. In Workspace1, create a linked service.

Answer: A

Explanation:

To successfully deploy the registered MLflow model to an online endpoint that lacks outbound internet connectivity, you must use model packaging to build a deployment package before deploying.

By default, Azure Machine Learning deploys MLflow models using a "no-code deployment" approach, which requires an outbound internet connection during container runtime to dynamically download and install Python dependencies listed in the model's conda.yaml file.

Because outbound connectivity is blocked, this process fails. Packaging the model bundles the model binaries, dependencies, and environment ahead of time, entirely removing the requirement for runtime internet access.

Reference:

<https://docs.azure.cn/en-us/machine-learning/how-to-deploy-mlflow-models-online-endpoints>

NEW QUESTION # 38

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

Answer: C

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 # 39

A team manages an Azure Machine Learning workspace where they deploy models to online endpoints.

The team needs to introduce a new version of a model to production without disrupting existing users.

The team must validate the new version before full rollout.

You need to reduce risk during deployment.

What should you do?

- A. Split traffic between deployments.
- B. Deploy the model to a batch endpoint.
- C. Route all traffic to the new deployment.
- D. Replace the existing endpoint.

Answer: A

Explanation:

According to Microsoft's Azure Machine Learning documentation on managed online endpoints, a single endpoint can host multiple named deployments simultaneously, and you can control what percentage of incoming traffic each deployment receives. This traffic-splitting capability is the foundation of blue/green and canary deployment strategies. When you route 10% of traffic to a new deployment and 90% to the existing one, you can monitor error rates, latency, and output quality of the new version under real production load without risking the majority of users. Microsoft explicitly recommends this pattern for safe rollouts. Option A (batch endpoint) is inappropriate for real-time serving. Option C (replacing the endpoint) is high-risk with no validation window. Option D (routing all traffic to the new deployment) provides zero protection if the new version has issues.

Microsoft Learn Reference Topic: Safe rollout of machine learning models - Traffic splitting on managed online endpoints

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

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

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