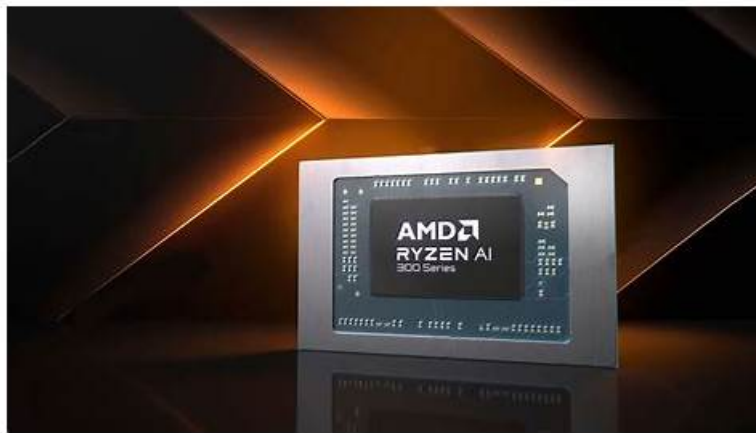


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Microsoft Operationalizing Machine Learning and Generative AI Solutions Sample Questions (Q34-Q39):

NEW QUESTION # 34

Drag and Drop Question

A team iterates prompts used by a generative AI agent. The team must support internal review before releasing changes.

The team must:

- Track prompt changes with a clear history for audit and rollback.
- Compare prompt variants in parallel without affecting the prompt used in the production environment.

You need to select the appropriate source control approach for each requirement.

What should you use for each requirement? To answer, move the appropriate source controls to the correct requirements. You may use each source control 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.

A screenshot of a Microsoft drag-and-drop question interface. On the left, under the heading "Source controls", there are four items in a list: "Git repository", "Azure Machine Learning notebooks", "Azure Storage", and "Branch-based workflow". On the right, under the heading "Source control options for prompts", there are two requirements: "Track prompt changes" and "Evaluate prompt variants". Each requirement has a corresponding empty box for a source control selection. A watermark "actualtestsit.com" is visible across the interface.

Answer:

Explanation:

Source controls

Git repository
Azure Machine Learning notebooks
Azure Storage
Branch-based workflow

Source control options for prompts

Requirement

Track prompt changes.

Evaluate prompt variants.

Source control

Git repository

Branch-based workflow



NEW QUESTION # 35

You manage an Azure Machine learning workspace. You develop a machine learning model.

You must deploy the model to use a low-priority VM with a pricing discount.

You need to deploy the model.

Which compute target should you use?

- A. Azure Container Instances (ACI)
- B. Local deployment
- C. Azure Kubernetes Service (AKS)
- **D. Azure Machine Learning compute clusters**

Answer: D

Explanation:

The key concept here is low-priority (spot) VMs, which are available at a significant discount because Azure can reclaim them at any time. Azure Machine Learning compute clusters are the only target in the list that directly supports low-priority VM nodes as a cost-saving configuration. You set the minimum and maximum node counts and specify that new nodes should be provisioned as low-priority. Azure Container Instances (ACI) does not support low-priority pricing. Local deployment runs on the developer's machine with no Azure billing model. Azure Kubernetes Service (AKS) does support spot node pools but requires significantly more infrastructure management and is not the primary mechanism for low-priority compute in Azure Machine Learning. The exam tests whether you know that AML compute clusters are the managed way to leverage low-priority discounts inside Azure Machine Learning.

Microsoft Learn Reference Topic: Create and manage Azure Machine Learning compute clusters - Low- priority VMs

NEW QUESTION # 36

Hotspot Question

You manage an Azure Machine Learning workspace named workspace1 by using the Python SDK v2. You create a General Purpose v2 Azure storage account named mlstorage1. The storage account includes a publicly accessible container named mlcontainer1. The container stores 10 blobs with files in the CSV format.

You must develop Python SDK v2 code to create a data asset referencing all blobs in the container named mlcontainer1.

You need to complete the Python SDK v2 code.

How should you complete the code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area



```
sample_dataset = Data(  
    path=   


|         |
|---------|
| wasbs   |
| abfss   |
| azureml |

  
    type=AssetTypes.  


|             |
|-------------|
| URI_FILE    |
| URI_FOLDER  |
| URI_MLTABLE |

  
    description="sample_dataset",  
    name="sample_dataset",  
    version='1.0'  
)
```

Answer:

Explanation:

Answer Area

```
sample_dataset = Data(  
    path=   


|         |
|---------|
| wasbs   |
| abfss   |
| azureml |

  
    type=AssetTypes.  


|             |
|-------------|
| URI_FILE    |
| URI_FOLDER  |
| URI_MLTABLE |

  
    description="sample_dataset",  
    name="sample_dataset",  
    version='1.0'  
)
```

NEW QUESTION # 37

You deploy a model to production but do not have labeled data available for evaluating prediction accuracy. However, you must monitor model health continuously. What is the BEST strategy?

- A. Monitor accuracy metrics
- B. Disable monitoring
- C. Perform manual evaluation only
- **D. Use data drift detection**

Answer: D

Explanation:

When labeled data is unavailable, traditional accuracy metrics cannot be computed. Data drift detection monitors changes in input data distribution, serving as a proxy for potential performance degradation. This allows early detection of issues before labeled data becomes available.

NEW QUESTION # 38

A team is deploying machine learning models to a production inference endpoint in Azure Machine Learning. The team requires a safe way to validate a new model version without disrupting existing users. You need to recommend a deployment strategy for controlled testing of a new model version. What should you configure?

- A. an evaluation script in Azure Machine Learning
- **B. traffic splitting between deployments**
- C. the model asset version in the registry
- D. deployment to a separate staging endpoint

Answer: B

Explanation:

The best strategy for controlled testing of a new model version in Azure Machine Learning is Blue-Green Deployment, often referred to as a safe rollout.

This approach allows you to deploy a new model version alongside the current one within the same Managed Online Endpoint without disrupting existing users.

Key Features of Blue-Green Deployment in Azure ML

Simultaneous Versions: Both the current "Blue" and new "Green" models run concurrently on the same endpoint.

*-> Traffic Shifting: You can use the endpoint's load balancer to allocate a specific percentage (e.g., 10%) of live production traffic to the new version.

Mirrored Traffic: For even lower risk, you can test the new model with mirrored traffic, where production requests are copied to the new model for validation without using its responses for the end user.

Instant Rollback: If the new model performs poorly, you can instantly shift 100% of traffic back to the original version.

Deployment Headers: You can bypass general traffic splitting to test the "Green" deployment specifically by adding an azureml-model-deployment header to your HTTP requests.

Reference:

<https://learn.microsoft.com/en-us/azure/machine-learning/how-to-safely-rollout-online-endpoints>

NEW QUESTION # 39

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With this configuration process in mind, we will discuss in Exam AI-300 Question more detail the three primary commands used to configure route maps, All inheritance in Java is public inheritance;

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