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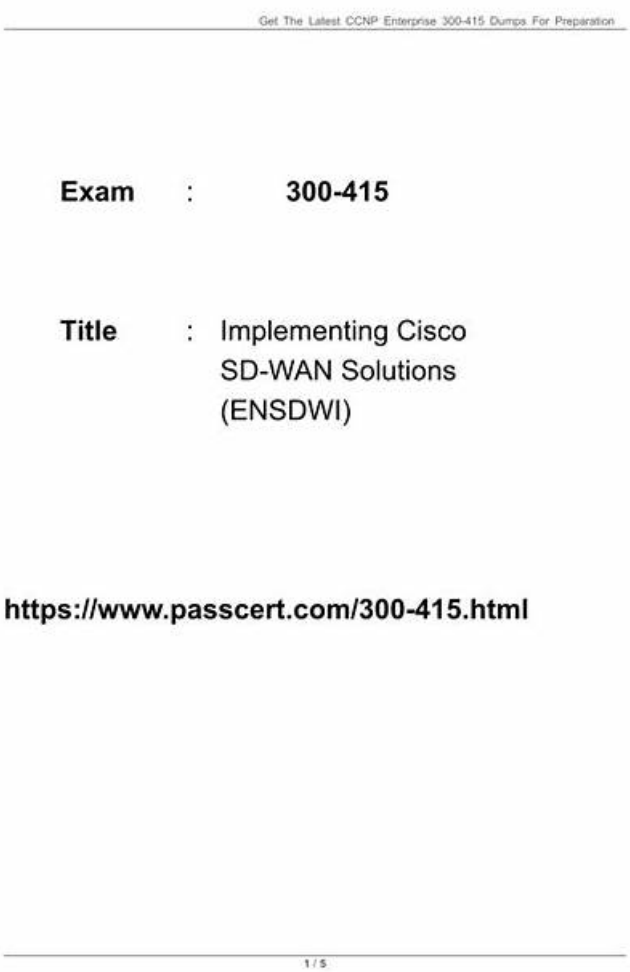

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Microsoft Operationalizing Machine Learning and Generative AI Solutions Sample Questions (Q20-Q25):

NEW QUESTION # 20
A team manages an Azure Machine Learning workspace and deploys a model to an endpoint.
A deployed online endpoint shows inconsistent response times during periods of high traffic.
You need to identify potential performance degradation.
Which three metrics should you monitor? Each correct answer presents part of the solution.
Choose three.
NOTE: Each correct selection is worth one point.

- A. Connections active
- B. Dataset size
- C. Requests per minute
- D. Request latency
- E. Feature count

Answer: A,C,D

Explanation:
To locate potential performance degradation in an Azure Machine Learning online endpoint during high traffic, you should monitor these three metrics:
Requests per minute: This metric tracks the volume of incoming traffic and helps identify if spikes in load correlate with slower response times.
Connections active: This monitors the total number of concurrent TCP connections from clients, which can indicate if the endpoint is reaching its capacity limits during peak periods.
Request latency: This directly measures the time taken to respond to requests, allowing you to observe exactly when and by how much performance is degrading.
Reference:
https://oneuptime.com/blog/post/2026-02-16-how-to-deploy-a-machine-learning-model-as-a-real- time-endpoint-in-azure-machine-learning/view

NEW QUESTION # 21
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. Network security groups
- B. Azure Firewall rules
- C. Service endpoints
- D. Private endpoints

Answer: D

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 # 22
Case Study 1 - Fabrikam Inc.

Background
Fabrikam Inc. is a mid-sized healthcare analytics company that provides population health dashboards and predictive insights to regional hospital systems across the United States.
Fabrikam Inc. customers rely on near real time analytics to monitor patient flow, staffing needs, and readmission risks. They use multiple traditional forecasting machine learning models for predictions.
Fabrikam Inc. has an established Microsoft Azure footprint. The company uses Jupyter Notebooks that run on a local server as the primary development environment. The data science team is experiencing scalability, asset management and code management issues with the current development platform. Fabrikam Inc. plans to migrate to a cloud-based development environment to mitigate the issues.
Additionally, the company plans to implement a Retrieval-Augmented Generation (RAG)-based chat application for client support. Leadership requires the application to be developed and deployed with a low operational risk.
Current Environment
Fabrikam Inc. operates a single Azure subscription that has the following components:
* Azure Data Lake Storage Gen2 that contains de-identified clinical and operational datasets
* Azure AI Search indexing curated analytical documents and reference materials
* A small set of Python-based training scripts maintained by data scientists
* Azure OpenAI Service with deployed foundational models
* A Microsoft Foundry resource for building a RAG-based solution
Evaluation data has manually defined expected responses.
The current challenges faced by the data science team include the following:
* Model training jobs are run manually from notebooks.
* Experiment tracking is inconsistent
* Model versions are registered without standardized metadata.
* Deployment is performed manually by data scientists, with limited rollback capability.
* The team has no standardized evaluation process for generative AI outputs.
The environment currently allows public network access. Authentication relies on user accounts rather than managed identities. Compute targets are manually created and shared across experiments. This has led to resource contention during peak usage.
Business Requirements
Fabrikam Inc. has the following business requirements for the modernization initiative:
* Provide a conversational interface that answers analytics questions by using internal documents and datasets.
* Ensure that sensitive healthcare-related data is not exposed outside the Fabrikam Inc. Azure tenant.
* Enable repeatable and auditable model training and deployment processes.
* Support experimentation to compare prompt strategies and fine-tuned models.
* Align the model with the ranked preferences and optimize behavior for the long term.
* Minimize disruption to existing analytics workloads during rollout.
Technical Requirements
To support the business goals, Fabrikam Inc. identifies these technical requirements:
* Use Azure Machine Learning workspaces to centrally manage data assets, models, and environments.
* Implement experiment tracking and model versioning for all training jobs.
* Orchestrate training and evaluation by using pipelines rather than manually running notebooks.
* Deploy traditional machine learning models with support for staged rollout and rollback.
* Improve RAG-based solution output quality.
* Use the existing evaluation datasets that are based on real data with input-output pairs.
* Apply advanced fine-tuning techniques only when prompt engineering is insufficient Issues and Constraints Fabrikam Inc. must comply with internal security policies that require the company to restrict network access and avoid long-lived secrets. The data science team has limited Azure DevOps experience, so solutions must favor managed services and automation over custom infrastructure.
Cost predictability is important. Leadership prefers serverless or managed compute options where possible but is willing to approve dedicated compute for stable production workloads.
Problem Statement
Fabrikam Inc. must design and implement an Azure-based AI operations solution that enables reliable training, evaluation, deployment, and iteration of generative AI models. The solution must support experimentation and gradual rollout while ensuring governance, security, and operational stability. The data science and platform teams must collaborate to deliver this solution by using Azure Machine Learning and Microsoft Foundry capabilities.
You need to recommend an experiment-tracking strategy that ensures consistent experiment results. What should you recommend?

- A. Azure Machine Learning job output logs
- B. Application Insights logs
- C. MLflow experiment tracking
- D. Azure Monitor alerts

Answer: C

Explanation:
Scenario:
The current challenges faced by the data science team include the following: Experiment tracking is inconsistent To support the business goals, Fabrikam Inc. identifies these technical requirements: Implement experiment tracking and model versioning for all training jobs.
In Azure-based AI operations, integrating MLflow with Azure Machine Learning (Azure ML) provides a unified interface to track experiments, version models, and manage the lifecycle of both traditional ML and Generative AI workloads.
Direct Implementation Strategy
To ensure consistent experiment results and comparison of prompt strategies versus fine-tuned models, use the following architectural approach:
Centralized Tracking: Configure the MLflow tracking URI to point to your Azure ML Workspace.
This allows all logs (from local notebooks, remote training jobs, or Prompt Flow) to aggregate in a single "Experiments" dashboard.
Prompt Strategy Comparison: Use Azure ML Prompt Flow to develop and test prompt variants.
Prompt Flow automatically logs metrics (like groundedness and relevance) which can be viewed alongside fine-tuned model metrics in the Azure ML Studio.
Model Versioning: Use the MLflow Model Registry hosted within Azure ML. Each successful training or fine-tuning run should be registered as a new version of a named model, providing a clear lineage from data to deployment.
Reference:
https://learn.microsoft.com/en-us/azure/machine-learning/how-to-use-mlflow-cli-runs

NEW QUESTION # 23
You manage a Microsoft Foundry project. You build a multi-turn chatbot application.
You plan to filter your traces to identify issues while observing how the application is responding.
The solution must not use an external knowledge base.
You need to select an evaluation metric.
Which built-in evaluator should you use?

- A. RelevanceEvaluator
- B. QAEvaluator
- C. CoherenceEvaluator
- D. SimilarityEvaluator

Answer: C

Explanation:
In a Microsoft Foundry project for a multi-turn chatbot, the best built-in evaluator to use-- especially when you want to avoid an external knowledge base--is the Coherence evaluator or a combination of Agentic Evaluators.
Because your application is multi-turn, you need to observe how the AI maintains a logical flow and resolves user intent over several exchanges. Since you specifically want to avoid an external knowledge base (eliminating "Groundedness" or "Retrieval" metrics), you should focus on quality metrics that only require the conversation history itself.
Reference:
https://www.cekura.ai/blogs/why-single-turn-testing-falls-short-in-evaluating-conversational-ai

NEW QUESTION # 24
Drag and Drop Question
An organization operates a generative AI application in production by using Microsoft Foundry.
The application serves live user traffic and is updated by a data scientist team regularly as prompts and models evolve.
The application intermittently times out during production use, which requires ongoing visibility into runtime behavior.
The team must also validate model quality and safety before releasing new updates to avoid introducing regressions.
You need to apply the correct mechanisms for continuous runtime monitoring and for release time validation.
Which mechanisms should you use for each requirement? To answer, move the appropriate mechanisms to the correct requirements.
You may use each mechanism 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 # 25

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