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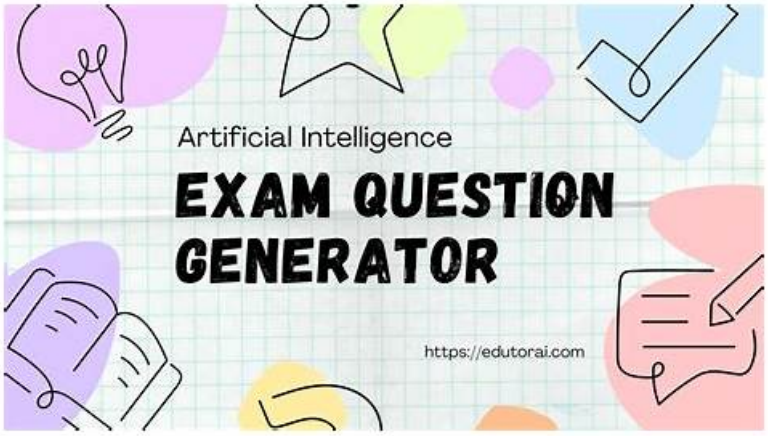

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Microsoft Operationalizing Machine Learning and Generative AI Solutions Sample Questions (Q71-Q76):

NEW QUESTION # 71
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. Same user identity
- B. Same compute SKU
- C. Same dataset name
- D. Versioned datasets and environments

Answer: D

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 # 72
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. Application Insights logs

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

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 # 73
Drag and Drop Question
A team maintains Infrastructure as Code (IaC) templates to provision Azure Machine Learning resources.
Provisioning must be triggered by changes in the templates and executed without manual intervention.
You need to automate resource provisioning.
Which action should you take for each requirement? 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 # 74
A team is developing a generative AI assistant. The team is experimenting with multiple prompt variants to improve the user experience.
When comparing prompt variants, the team plans to assess whether the generated responses are grammatically correct.
You need to evaluate the quality of the language from the generated responses.
Which evaluator should you use?

- A. Fluency
- B. Textual similarity
- C. Grounded ness
- D. Coherence

Answer: A

Explanation:
The best evaluator within the Microsoft ecosystem for checking the grammatical correctness of generative AI responses--especially when testing multiple prompt variants--is the Azure AI Evaluator for Fluency, available within Azure AI Foundry.
Fluency Evaluator (builtin.fluency)
Purpose: Specifically designed to measure the effectiveness and clarity of written communication.
Grammatical Focus: It assesses grammatical accuracy, sentence structure, punctuation, and vocabulary usage in AI-generated text.

Result: It provides a 1-5 Likert scale score, allowing you to compare which prompt variants produce the most grammatically correct, natural-sounding responses.
Reference:
https://learn.microsoft.com/en-us/azure/machine-learning/prompt-flow/concept-model-monitoring- generative-ai-evaluation-metrics

NEW QUESTION # 75
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 defined demographic cohorts.
- B. Validate inference schema compatibility.
- C. Measure endpoint latency under load.
- D. Evaluate feature importance for prediction transparency.
- E. Analyze error rates across the global cohort.

Answer: A,D

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 # 76
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