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Microsoft Operationalizing Machine Learning and Generative AI Solutions 認定 AI-300 試験問題 (Q31-Q36):

質問 # 31

An organization is deploying several generative AI workloads by using Microsoft Foundry. Each workload must meet different requirements related to data governance, task specialization, and operational cost control.

The organization requires models that meet the following requirements:

- Model behavior aligns with the task being performed.
- Data handling aligns with internal governance policies.
- Operational complexity and cost are justified by workload needs.

You need to select the foundation model options that meet the requirements.

Which three models can you select? Each correct answer presents a complete solution. Choose three.

NOTE: Each correct selection is worth one point.

- A. A model that offers enterprise governance controls when workloads process regulated business data
- B. The largest available model to simplify operational management

- C. The smallest available model to minimize the usage cost
- D. A model that supports multiple input types when workloads require combined text and image analysis
- E. A model that is optimized for conversational reasoning when deploying an interactive assistant

正解: A、B、C

解説:

[B] Operational complexity and cost are justified by workload needs.

In a scenario where a single generative AI workload is deployed via Microsoft Foundry and the associated high operational complexity and costs are already justified, utilizing the largest available model (e.g., GPT-4 class models) is an appropriate strategy to simplify operational management.

This approach aligns with a "production-first" or high-performance mindset where, instead of managing multiple smaller, specialized models, a single powerful model provides the necessary reasoning capabilities, accuracy, and broad applicability for complex, high-stakes tasks, reducing the overhead of engineering, fine-tuning, and maintaining several smaller models.

[C] Model behavior aligns with the task being performed

In Microsoft Azure AI Foundry, the most appropriate model to minimize usage costs while maintaining task alignment is typically a Small Language Model (SLM) from the Phi family or a specialized "mini" partner model.

Top Recommended Small Models for Cost-Efficiency

These models are designed for high efficiency and lower latency, making them ideal for specific, well-defined tasks.

[E] Data handling aligns with internal governance policies

In a Microsoft Foundry (Azure AI Foundry) setup, the Azure OpenAI Service models are the appropriate choice for processing regulated business data due to their built-in enterprise governance and security controls. Unlike standard public models, these "Direct Models" are hosted within your Azure tenant and adhere to strict organizational policies.

Enterprise Governance Controls

For workloads involving regulated data, the following governance features in Microsoft Foundry ensure compliance:

Foundry Control Plane: Centralizes management, observability, and compliance enforcement for all models and agents in one interface.

Azure Policy Integration: Allows administrators to enforce specific model usage, restrict deployments to approved regions, and apply predefined security configurations.

Microsoft Purview Integration: Extends data security posture management (DSPM) to AI workloads, enabling sensitive data discovery, classification, and data loss prevention (DLP) across user prompts and model responses.

Microsoft Entra Agent ID: Automatically assigns a unique identity to every AI agent, enabling granular, role-based access control (RBAC) and auditability of model interactions.

Azure AI Content Safety: Provides configurable filters to block harmful or regulated content and includes "protected material detection" to prevent copyright risks.

Reference:

<https://azure.microsoft.com/en-us/products/ai-foundry/models>

<https://learn.microsoft.com/en-us/azure/foundry/responsible-ai/openai/data-privacy>

質問 # 32

A team develops and manages a conversational assistant by using Microsoft Foundry.

The team must be able to validate that the assistant does not produce hateful responses before the application is exposed to any users.

You need to evaluate the model output for hateful responses as part of a repeatable validation process.

Which evaluator should you configure first?

- A. Groundedness
- B. Protected material
- C. Indirect attacks
- D. Content safety

正解: D

解説:

You should use the Hate and Unfairness Evaluator (a specific type of Content Safety Evaluator) in Microsoft Azure AI Foundry.

This tool is designed to identify and measure the severity of hateful content toward protected groups, ensuring your assistant aligns with responsible AI standards.

Why Use the Content Safety Evaluator?

Targeted Detection: It identifies language attacking or discriminating against people based on race, religion, gender, and other identity factors.

Severity Scoring: It provides a numerical severity score (often 0-7) to help you understand the level of risk in a response.

Reasoning: It often includes a "reason" or "explanation" column that explains why a specific response was flagged.

Multilingual Support: These models are trained to work across multiple languages, including English, Spanish, French, and Japanese.

Reference:

<https://arize.com/blog/evaluating-and-improving-ai-agents-at-scale-with-microsoft-foundry>

質問 # 33

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 isolate training workloads while remaining cost-aware to address Fabrikam Inc.'s issues, constraints, and technical requirements. What should you implement?

- A. Fixed-size compute cluster
- **B. Managed compute targets with autoscaling**
- C. Dedicated compute clusters per experiment
- D. Training jobs that run on a single shared compute cluster

正解: B

解説:

Scenario: Issues and Constraints: Cost predictability is important. Leadership prefers serverless or managed compute options where possible but is willing to approve dedicated compute for stable production workloads.

Managed compute targets with autoscaling are the best choice for Azure Machine Learning training workloads when serverless or managed options are preferred and cost predictability is critical.

Best Implementation: Managed Compute with Autoscaling

This option, specifically using Azure Machine Learning compute clusters (AmlCompute), aligns with all your requirements:

Managed Infrastructure: Azure handles the creation, patching, and lifecycle of the virtual machines, reducing management overhead.

Cost Predictability & Efficiency: Autoscaling allows you to set a minimum of zero nodes. This ensures you only pay for compute while a job is running, preventing costs from idle resources.

Scalability: It can automatically scale up to a multi-node cluster to handle large datasets or distributed training jobs.

Enterprise Governance: Administrators can enforce cost control by setting quotas at the subscription or workspace level.

Reference:

<https://learn.microsoft.com/en-us/azure/machine-learning/how-to-use-serverless-compute>

質問 # 34

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 dataset name
- B. Same compute SKU
- C. Same user identity
- **D. Versioned datasets and environments**

正解: D

解説:

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.

質問 # 35

Hotspot Question

You use Azure Machine Learning to train models across multiple experiments by using the same workspace.

You must record training runs in a centralized location to compare results from different jobs.

During training, performance values must be captured so they appear in the experiment run history.

You need to configure experiment tracking.

What should you configure for each requirement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

正解:

解説:

質問 # 36

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