

AI-300 Exam Topic - AI-300 New Braindumps Pdf

Actions	Answer Area
Run the Always Encrypted wizard.	
Create an Azure Key Vault instance and generate a secret.	
Create an Azure Key Vault instance and configure an access policy.	
Create a Microsoft Entra managed identity.	
Register ResearchApp1 to Microsoft Entra ID.	

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Microsoft AI-300 Exam Syllabus Topics:

Section	Objectives
Topic 1: Plan and design AI solutions using Azure AI services	- Responsible AI design • 1. Responsible AI mitigation strategies • 2. Fairness, transparency, and accountability considerations - Requirements gathering and solution architecture • 1. Select appropriate Azure AI services • 2. Identify business requirements for AI solutions
Topic 2: Implement secure and scalable AI systems	- Scalability and performance optimization • 1. Autoscaling AI workloads • 2. Cost optimization strategies - Security and governance • 1. Identity and access management for AI services • 2. Data privacy and compliance considerations
Topic 3: Design and implement generative AI solutions	- RAG (Retrieval Augmented Generation) solutions • 1. Vector search integration • 2. Knowledge grounding and retrieval design - Large language model integration • 1. Use Azure OpenAI Service capabilities • 2. Prompt engineering and prompt flow design
Topic 4: Operationalizing machine learning solutions	- Deployment and monitoring • 1. Monitor performance and drift • 2. Deploy models to endpoints - ML lifecycle management • 1. Model training and evaluation in Azure Machine Learning • 2. Model versioning and registry usage

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Microsoft Operationalizing Machine Learning and Generative AI Solutions Sample Questions (Q163-Q168):

NEW QUESTION # 163

You have a deployment of an Azure OpenAI Service base model.

You plan to fine-tune the model.

You need to prepare a file that contains training data for multi-turn chat.

Which file encoding method should you use?

- A. UTF-16
- B. ASCII
- C. ISO-8859-1
- **D. UTF-8**

Answer: D

Explanation:

UTF-8 is the universal encoding standard: it is backward-compatible with ASCII for standard Latin characters, supports every Unicode code point covering over 140,000 characters, and is the de facto standard for all modern APIs including Azure OpenAI. This matters for fine-tuning because training data often contains diverse characters from multiple languages, special punctuation, and domain-specific symbols. If they use ASCII encoding, any accented character or non-Latin script will be corrupted or lost entirely. UTF-

16 adds a Byte Order Mark and can cause parsing issues with tools that expect standard JSONL. ISO-8859-1 covers Western European characters only and fails immediately with CJK or Arabic scripts. The Azure OpenAI fine-tuning documentation explicitly states that training files must be UTF-8 encoded, making it the only safe choice.

Microsoft Learn Reference Topic: Azure OpenAI fine-tuning - File format and encoding requirements

NEW QUESTION # 164

You create a multi-class image classification model with automated machine learning in Azure Machine Learning.

You need to prepare labeled image data as input for model training in the form of an Azure Machine Learning tabular dataset.

Which data format should you use?

- A. COCO
- **B. JSONL**
- C. JSON
- D. Pascal VOC

Answer: B

Explanation:

Azure Machine Learning, you should use the JSON Lines (.jsonl) format.

Reference:

<https://learn.microsoft.com/en-us/azure/machine-learning/how-to-prepare-datasets-for-automl-images?view=azureml-api-2>

NEW QUESTION # 165

Drag and Drop Question

A team operates a generative AI-powered customer support assistant built on Microsoft Foundry.

The application serves users globally and supports both real-time chat interactions and batch summarization jobs.

The team must ensure that the application continues to meet defined service-level objectives (SLO) as usage increases.

The team requires visibility into runtime behavior to identify performance regressions that affect the user experience and system capacity.

You need to select the performance metrics that meet the requirements.

Which performance metric should you monitor for each requirement? To answer, move the appropriate performance metrics to the correct requirements. You may use each performance metric 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.

Performance metrics	Select runtime performance metrics	Performance metric
Latency	Requirement	
Throughput	Detect when the system is slow as returning output.	
Response time	Identify when the system cannot sustain expected request volume.	
Concurrency	Measure the duration of handling a request.	

Answer:

Explanation:

Performance metrics	Select runtime performance metrics	Performance metric
Latency	Requirement	
Throughput	Detect when the system is slow as returning output.	Response time
Response time	Identify when the system cannot sustain expected request volume.	Concurrency
Concurrency	Measure the duration of handling a request.	Latency

NEW QUESTION # 166

You train models on GPU-enabled clusters but deploy them on CPU-based endpoints. Recently, inference failures occur due to incompatible dependencies. What should you do to ensure consistency?

- A. Increase endpoint compute size
- B. Use same compute for training and inference
- C. Define and reuse environment configurations
- D. Use batch endpoints

Answer: C

NEW QUESTION # 167

You run Azure Machine Learning training experiments. The training scripts directory contains 100 files that includes a file named .amignore. The directory also contains subdirectories named ./outputs and ./logs.

There are 20 files in the training scripts directory that must be excluded from the snapshot to the compute targets. You create a file named .gitignore in the root of the directory. You add the names of the 20 files to the .gitignore file. These 20 files continue to be copied to the compute targets.

You need to exclude the 20 files.

What should you do?

- A. Add the contents of the file named .amignore to the file named .gitignore.
- B. Move the file named .gitignore to the ./outputs directory.
- C. Move the file named .gitignore to the ./logs directory.

- D. Copy the contents of the file named `.gitignore` to the file named `.amlignore`.

Answer: D

Explanation:

To exclude the 20 files from the training snapshot, you must add the file names to the `.amlignore` file located in the root of your training scripts directory.

Why the Files Are Still Copying

Azure Machine Learning training experiments use a specific order of precedence when creating a directory snapshot for compute targets:

`.amlignore` takes absolute priority: If an `.amlignore` file exists in the directory, Azure ML only respects the rules inside it. It completely ignores any `.gitignore` file present.

.gitignore is a fallback: Azure ML only respects .gitignore rules if an .amlignore file does not exist in the directory. Because you have both files, the .gitignore file is being completely bypassed.

Reference:

<https://learn.microsoft.com/en-us/python/api/azureml-core/azureml.core.experiment.experiment>

NEW QUESTION # 168

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