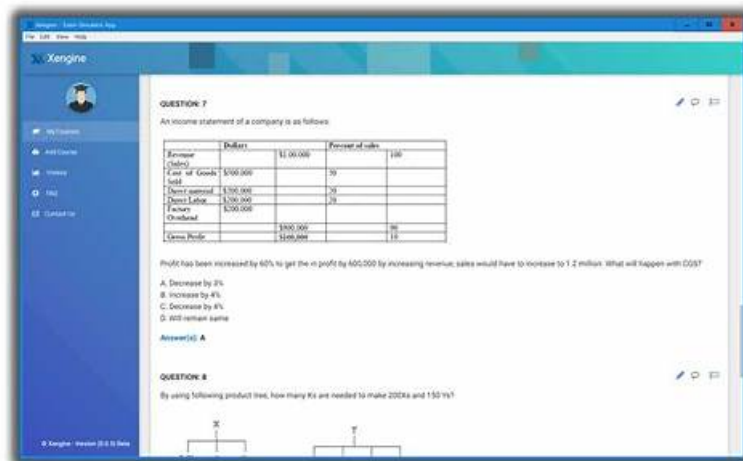


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## Microsoft Operationalizing Machine Learning and Generative AI Solutions Sample Questions (Q29-Q34):

### NEW QUESTION # 29

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.

Which file format should you use?

- A. TSV
- **B. JSONL**
- C. CSV
- D. JSON

Answer: B

Explanation:

To fine-tune a model in the Azure OpenAI Service, your training data must be in JSONL (JSON Lines) format.

File Requirements

Format: Each line of the file must be a single, valid JSON object.

Encoding: The file must be encoded in UTF-8.

Special Requirement: For some older tools or specific Azure OpenAI use cases, the file may need to include a byte-order mark (BOM).

Size Limits: Individual files typically have a maximum size (e.g., 100 MB per file in some contexts), but you can often upload multiple files.

Reference:

<https://dev.to/icebeam7/fine-tuning-a-model-with-azure-open-ai-studio-39p7>

### NEW QUESTION # 30

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. ISO-8859-1
- B. ASCII
- C. UTF-16
- **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 # 31

Your model requires access to external APIs using sensitive credentials during inference. You must ensure credentials are not exposed in code, logs, or environment variables. What should you implement?

- A. Store in config files
- B. Encrypt credentials locally
- C. Hardcode credentials
- **D. Use Azure Key Vault with managed identity**

**Answer: D**

Explanation:

Azure Key Vault with managed identity ensures secure access to sensitive credentials without exposing them in code or configuration. Managed identities eliminate the need for hardcoded secrets. Other approaches, such as config files or environment variables, increase the risk of accidental exposure.

### NEW QUESTION # 32

Hotspot Question

You are reviewing a dataset that will be used for an advanced fine-tuning job in Microsoft Foundry.

The fine-tuning job uses preference comparison data.

You review the following dataset excerpt.

Training record 1:

```
01 {"input":[{"role":"system","content":"You are a policy assistant."},
02       {"role":"user","content":"Summarize Policy X for managers."}],
03  "preferred_output":[{"role":"assistant","content":"Policy X applies to all managers and outlines approval
requirements."}],
04  "non_preferred_output":[{"role":"assistant","content":"Policy X applies to all managers and outlines approval
requirements."}]}
```

Training record 2:

```
01
02 {"input":[{"role":"system","content":"You are a policy assistant."},
03       {"role":"user","content":"What is the retention period?"}],
04  "preferred_output":[{"role":"assistant","content":"The retention period is seven years."}],
05  "non_preferred_output":[{"role":"assistant","content":"The retention period is five years."}]}
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Statement	Yes	No
The first record provides a usable preference signal for preference-based fine-tuning.	<input type="radio"/>	<input type="radio"/>
The second record provides a usable preference signal for preference-based fine-tuning.	<input type="radio"/>	<input type="radio"/>
Each preferred and non-preferred output in the dataset contains a valid assistant message as required for direct preference optimization.	<input type="radio"/>	<input type="radio"/>
Both records must contain different preferred and non-preferred outputs to produce usable training signals.	<input type="radio"/>	<input type="radio"/>

Answer:

Explanation:

Statement	Yes	No
The first record provides a usable preference signal for preference-based fine-tuning.	<input type="radio"/>	<input checked="" type="radio"/>
The second record provides a usable preference signal for preference-based fine-tuning.	<input checked="" type="radio"/>	<input type="radio"/>
Each preferred and non-preferred output in the dataset contains a valid assistant message as required for direct preference optimization.	<input type="radio"/>	<input checked="" type="radio"/>
Both records must contain different preferred and non-preferred outputs to produce usable training signals.	<input checked="" type="radio"/>	<input type="radio"/>

### NEW QUESTION # 33

Drag and Drop Question

A team manages prompts that are used by a generative AI application built on Microsoft Foundry. Multiple developers contribute prompt updates, and changes must be reviewed and tracked over time.

The team requires that:

- Prompt changes are reviewed before being applied to the version in production.
- Previous prompt versions can be restored if issues occur.
- Prompt updates follow the same governance practices as the application code.

You need to implement a controlled process for managing and updating prompts in production.

How should you manage prompt updates to meet the requirements? 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 # 34**

.....

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