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## Amazon AIF-C01 Exam Syllabus Topics:

| Topic   | Details                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topic 1 | <ul style="list-style-type: none"><li>Fundamentals of Generative AI: This domain explores the basics of generative AI, focusing on techniques for creating new content from learned patterns, including text and image generation. It targets professionals interested in understanding generative models, such as developers and researchers in AI.</li></ul>                                                                             |
| Topic 2 | <ul style="list-style-type: none"><li>Applications of Foundation Models: This domain examines how foundation models, like large language models, are used in practical applications. It is designed for those who need to understand the real-world implementation of these models, including solution architects and data engineers who work with AI technologies to solve complex problems.</li></ul>                                    |
| Topic 3 | <ul style="list-style-type: none"><li>Fundamentals of AI and ML: This domain covers the fundamental concepts of artificial intelligence (AI) and machine learning (ML), including core algorithms and principles. It is aimed at individuals new to AI and ML, such as entry-level data scientists and IT professionals.</li></ul>                                                                                                         |
| Topic 4 | <ul style="list-style-type: none"><li>Security, Compliance, and Governance for AI Solutions: This domain covers the security measures, compliance requirements, and governance practices essential for managing AI solutions. It targets security professionals, compliance officers, and IT managers responsible for safeguarding AI systems, ensuring regulatory compliance, and implementing effective governance frameworks.</li></ul> |
| Topic 5 | <ul style="list-style-type: none"><li>Guidelines for Responsible AI: This domain highlights the ethical considerations and best practices for deploying AI solutions responsibly, including ensuring fairness and transparency. It is aimed at AI practitioners, including data scientists and compliance officers, who are involved in the development and deployment of AI systems and need to adhere to ethical standards.</li></ul>    |

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a short time, you must prepare with AIF-C01 exam questions that are real and updated. Without studying with Amazon AIF-C01 actual questions, candidates fail and waste their time and money.

## Amazon AWS Certified AI Practitioner Sample Questions (Q64-Q69):

### NEW QUESTION # 64

A company is using Amazon SageMaker to deploy a model that identifies if social media posts contain certain topics. The company needs to show how different input features influence model behavior.

- A. SageMaker Ground Truth
- **B. SageMaker Clarify**
- C. SageMaker Feature Store
- D. SageMaker Canvas

**Answer: B**

Explanation:

Comprehensive and Detailed

SageMaker Clarify provides model explainability, bias detection, and helps visualize how input features affect predictions.

Canvas is for low-code ML building.

Feature Store is for storing and managing ML features.

Ground Truth is for data labeling.

Reference:

AWS Documentation - Amazon SageMaker Clarify

### NEW QUESTION # 65

Which technique involves training AI models on labeled datasets to adapt the models to specific industry terminology and requirements?

- A. Continuous pre-training
- B. Data augmentation
- **C. Fine-tuning**
- D. Model quantization

**Answer: C**

Explanation:

Fine-tuning involves training a pre-trained AI model on a labeled dataset specific to a particular task or domain, adapting it to industry terminology and requirements. This process adjusts the model's parameters to better fit the target use case, such as understanding specialized vocabulary or meeting domain-specific needs.

Exact Extract from AWS AI Documents:

From the AWS Bedrock User Guide:

"Fine-tuning allows you to adapt a pre-trained foundation model to your specific use case by training it on a labeled dataset. This technique is commonly used to customize models for industry-specific terminology, improving their accuracy for specialized tasks."

(Source: AWS Bedrock User Guide, Model Customization) Detailed Option A: Data augmentation Data augmentation involves generating synthetic data to expand a training dataset, typically for tasks like image or text generation. It does not specifically adapt models to industry terminology or requirements.

Option B: Fine-tuning This is the correct answer. Fine-tuning trains a pre-trained model on a labeled dataset tailored to the target domain, enabling it to learn industry-specific terminology and requirements, as described in the question.

Option C: Model quantization Model quantization reduces the precision of a model's weights to optimize it for deployment (e.g., on edge devices). It does not involve training on labeled datasets or adapting to industry terminology.

Option D: Continuous pre-training Continuous pre-training extends the initial training of a model on a large, general dataset. While it can improve general performance, it is not specifically tailored to industry requirements using labeled datasets, unlike fine-tuning.

Reference:

AWS Bedrock User Guide: Model Customization (<https://docs.aws.amazon.com/bedrock/latest/userguide/custom-models.html>)

AWS AI Practitioner Learning Path: Module on Model Training and Customization Amazon SageMaker Developer Guide: Fine-Tuning Models (<https://docs.aws.amazon.com/sagemaker/latest/dg/algo.html>)

### NEW QUESTION # 66

An education provider is building a question and answer application that uses a generative AI model to explain complex concepts. The education provider wants to automatically change the style of the model response depending on who is asking the question. The education provider will give the model the age range of the user who has asked the question. Which solution meets these requirements with the LEAST implementation effort?

- A. Use chain-of-thought reasoning to deduce the correct style and complexity for a response suitable for that user.
- B. Summarize the response text depending on the age of the user so that younger users receive shorter responses.
- **C. Add a role description to the prompt context that instructs the model of the age range that the response should target.**
- D. Fine-tune the model by using additional training data that is representative of the various age ranges that the application will support.

**Answer: C**

### NEW QUESTION # 67

A company uses Amazon SageMaker AI to generate article summaries in multiple languages. The company needs a metric to evaluate the quality of the summary translations in multiple languages. Which evaluation metric will meet these requirements?

- A. Precision
- B. Area Under the ROC Curve (AUC)
- **C. Bilingual evaluation understudy (BLEU)**
- D. Recall-Oriented Understudy for Gisting Evaluation (ROUGE)

**Answer: C**

Explanation:

BLEU (Bilingual Evaluation Understudy) is the standard metric for evaluating machine translation quality across multiple languages.

ROUGE is for summarization quality (not translation).

AUC is for classification model performance.

Precision is a general metric but not specific for evaluating translations.

Reference:

AWS Documentation - Evaluation Metrics for NLP

### NEW QUESTION # 68

A loan company is building a generative AI-based solution to offer new applicants discounts based on specific business criteria. The company wants to build and use an AI model responsibly to minimize bias that could negatively affect some customers. Which actions should the company take to meet these requirements? (Select TWO.)

- A. Use the Recall-Oriented Understudy for Gisting Evaluation (ROUGE) technique to ensure that the model is 100% accurate.
- B. Ensure that the model's inference time is within the accepted limits.
- **C. Evaluate the model's behavior so that the company can provide transparency to stakeholders.**
- **D. Detect imbalances or disparities in the data.**
- E. Ensure that the model runs frequently.

**Answer: C,D**

### NEW QUESTION # 69

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