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## Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<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>

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>• 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 4	<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 5	<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>

### >> AIF-C01 Top Questions <<

## 2026 AIF-C01: AWS Certified AI Practitioner –Trustable Top Questions

As we all know, through the judicial examination, you need to become a lawyer, when the teacher is need through the teachers' qualification examinations. If you want to be an excellent elites in this line, you need to get the AWS Certified AI Practitioner certification, thus it can be seen through the importance of qualification examination. Only through qualification examination, has obtained the corresponding qualification certificate, we will be able to engage in related work, so the AIF-C01 Test Torrent is to help people in a relatively short period of time a great important tool to pass the qualification test.

## Amazon AWS Certified AI Practitioner Sample Questions (Q285-Q290):

### NEW QUESTION # 285

An AI practitioner has trained a model on a training dataset. The model performs well on the training data. However, the model does not perform well on evaluation data. What is the MOST likely cause of this issue?

- A. The model is biased.
- B. The model requires prompt engineering.
- C. The model is underfit.
- **D. The model is overfit.**

**Answer: D**

Explanation:

When a model performs well on training data but poorly on evaluation/test data, it indicates overfitting.

Overfitting: The model memorizes the training data patterns instead of generalizing.

Underfitting (A) means the model performs poorly on both training and test data.

Bias (C) refers to systemic errors in predictions, not this training/test mismatch.

Prompt engineering (B) applies to generative AI, not general ML training models.

# Reference:

AWS ML Glossary - Overfitting and Underfitting

### NEW QUESTION # 286

A bank has fine-tuned a large language model (LLM) to expedite the loan approval process. During an external audit of the model, the company discovered that the model was approving loans at a faster pace for a specific demographic than for other demographics.

How should the bank fix this issue MOST cost-effectively?

- A. Use Retrieval Augmented Generation (RAG) with the fine-tuned model.
- **B. Include more diverse training data. Fine-tune the model again by using the new data.**
- C. Pre-train a new LLM with more diverse training data.
- D. Use AWS Trusted Advisor checks to eliminate bias.

**Answer: B**

Explanation:

"The most effective method to reduce model bias is to curate and include diverse, representative training data, then retrain or fine-tune the model." (Reference: AWS Responsible AI, SageMaker Clarify Bias Mitigation) B (RAG) is unrelated to model fairness or bias mitigation; it's for grounding LLMs with external knowledge.

C (AWS Trusted Advisor) is for AWS resource optimization/security-not for ML model bias detection or mitigation.

D (Pre-train a new LLM) would be extremely costly and is unnecessary; fine-tuning with better data is much more efficient.

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The best practice for mitigating bias in AI/ML models, according to AWS and responsible AI frameworks, is to ensure that the training data is representative and diverse. If a model demonstrates bias (such as favoring a particular demographic), the recommended, cost-effective approach is to collect additional data from underrepresented groups and retrain (fine-tune) the model with the improved dataset.

Reference:

Responsible AI on AWS

Amazon SageMaker Clarify: Detecting and Mitigating Bias

AWS Certified AI Practitioner Exam Guide

#### NEW QUESTION # 287

A company is using Amazon SageMaker to develop AI models.

Select the correct SageMaker feature or resource from the following list for each step in the AI model lifecycle workflow. Each SageMaker feature or resource should be selected one time or not at all. (Select TWO.) SageMaker Clarify SageMaker Model Registry SageMaker Serverless Inference

Managing different versions of the model

Select...	▼
Select...	
SageMaker Clarify	
SageMaker Model Registry	
SageMaker Serverless Inference	

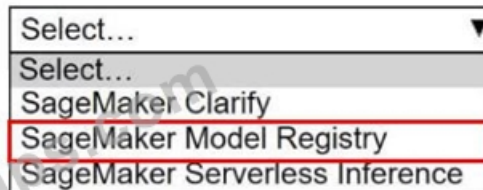
Using the current model to make predictions

Select...	▼
Select...	
SageMaker Clarify	
SageMaker Model Registry	
SageMaker Serverless Inference	

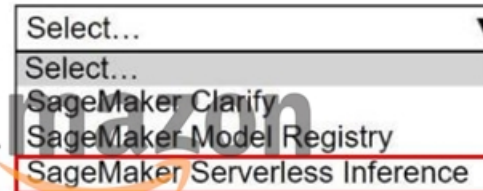
**Answer:**

Explanation:

Managing different versions of the model



Using the current model to make predictions



Reference:

AWS SageMaker Documentation: Model Registry (<https://docs.aws.amazon.com/sagemaker/latest/dg/model-registry.html>) AWS

SageMaker Documentation: Serverless Inference (<https://docs.aws.amazon.com/sagemaker/latest/dg/serverless-inference.html>)

AWS AI Practitioner Study Guide (conceptual alignment with SageMaker features for model lifecycle management and inference)

Let's format this question according to the specified structure and provide a detailed, verified answer based on AWS AI Practitioner knowledge and official AWS documentation. The question focuses on selecting an AWS database service that supports storage and queries of embeddings as vectors, which is relevant to generative AI applications.

#### NEW QUESTION # 288

A company wants to use a large language model (LLM) on Amazon Bedrock for sentiment analysis. The company wants to know how much information can fit into one prompt.

Which consideration will inform the company's decision?

- A. Model size
- B. Batch size
- C. Context window
- D. Temperature

**Answer: C**

#### NEW QUESTION # 289

A company wants to set up private access to Amazon Bedrock APIs from the company's AWS account. The company also wants to protect its data from internet exposure.

- A. Use AWS Lake Formation to manage centralized data governance and cross-account data sharing
- B. Use AWS PrivateLink to configure a private connection between the company's VPC and Amazon Bedrock
- C. Use Amazon CloudFront to restrict access to the company's private content
- D. Use AWS Glue to set up data encryption across the company's data catalog

**Answer: B**

Explanation:

AWS PrivateLink enables private connectivity between your VPC and supported AWS services (like Amazon Bedrock) without sending traffic over the public internet.

CloudFront (A) is for CDN and content delivery, not private service connections.

AWS Glue (B) is for ETL/data catalog, not networking.

Lake Formation (C) provides governance for data lakes, not API network isolation.

Reference:

AWS Documentation - Access Amazon Bedrock with PrivateLink

#### NEW QUESTION # 290

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