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## Amazon AIF-C01 Exam Syllabus Topics:

| Topic   | Details  |
|---------|--|
| Topic 1 | <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 2 | <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 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>• 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 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>    |

## Amazon AIF-C01 Valid Dumps Questions & Exam AIF-C01 Forum

The AWS Certified AI Practitioner certification exam is one of the top-rated career advancement AIF-C01 certifications in the market. This AWS Certified AI Practitioner certification exam has been inspiring candidates since its beginning. Over this long period, thousands of AWS Certified AI Practitioner exam candidates have passed their AIF-C01 Certification Exam and now they are doing jobs in the world's top brands.

### Amazon AWS Certified AI Practitioner Sample Questions (Q118-Q123):

#### NEW QUESTION # 118

A company wants to generate synthetic data responses for multiple prompts from a large volume of data. The company wants to use an API method to generate the responses. The company does not need to generate the responses immediately.

- A. Use Amazon Bedrock agents. Build an agent system to process the prompts recursively.
- B. Use AWS Lambda functions to automate the task. Submit one prompt after another and store each response.
- C. Input the prompts into the model. Generate responses by using real-time inference.
- D. Use Amazon Bedrock batch inference. Generate responses asynchronously.

#### Answer: D

Explanation:

The correct answer is B - Use Amazon Bedrock batch inference, which allows asynchronous generation of large-scale model outputs through APIs without requiring low-latency performance. According to AWS Bedrock documentation, batch inference is ideal for high-volume workloads that can tolerate delay, such as bulk content generation or summarization jobs. Unlike real-time inference, it processes requests in bulk, reducing cost and operational load. AWS handles the queuing, processing, and scaling automatically. Bedrock Agents (option C) are for workflow orchestration, not large-scale generation. AWS Lambda (option D) can automate tasks but is not optimized for high-volume LLM calls. Batch inference provides cost efficiency, scalability, and simplicity for delayed, asynchronous generation needs.

Referenced AWS AI/ML Documents and Study Guides:

Amazon Bedrock Developer Guide - Batch Inference

AWS ML Specialty Study Guide - Scalable Inference Options

#### NEW QUESTION # 119

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 AWS Trusted Advisor checks to eliminate bias.
- 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 Retrieval Augmented Generation (RAG) with the fine-tuned model.

#### Answer: B

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.

A. Include more diverse training data. Fine-tune the model again by using the new data:

"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)

"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.  
Reference:  
Responsible AI on AWS  
Amazon SageMaker Clarify: Detecting and Mitigating Bias  
AWS Certified AI Practitioner Exam Guide

### NEW QUESTION # 120

A company wants to keep its foundation model (FM) relevant by using the most recent data. The company wants to implement a model training strategy that includes regular updates to the FM.  
Which solution meets these requirements?

- A. Batch learning
- B. Continuous pre-training
- C. Static training
- D. Latent training

#### Answer: B

Explanation:

To keep a foundation model (FM) relevant with the most recent data, the company needs a training strategy that supports regular updates. Continuous pre-training involves periodically updating a pre-trained model with new data to improve its performance and relevance over time, making it the best fit for this requirement.

Exact Extract from AWS AI Documents:

From the AWS AI Practitioner Learning Path:

"Continuous pre-training is a strategy where a pre-trained model is periodically updated with new data to keep it relevant and improve its performance. This approach is commonly used for foundation models to ensure they adapt to new trends and information." (Source: AWS AI Practitioner Learning Path, Module on Model Training Strategies) Detailed Explanation:

- \* Option A: Batch learningBatch learning involves training a model on a fixed dataset in batches, but it does not inherently support regular updates with new data to keep the model relevant over time.
- \* Option B: Continuous pre-trainingThis is the correct answer. Continuous pre-training updates the FM with recent data, ensuring it stays relevant by adapting to new trends and information.
- \* Option C: Static trainingStatic training implies training a model once on a fixed dataset without updates, which does not meet the requirement for regular updates.
- \* Option D: Latent trainingLatent training is not a standard term in AWS or ML contexts. It may refer to latent space in models like VAEs, but it is not a strategy for regular model updates.

References:

AWS AI Practitioner Learning Path: Module on Model Training Strategies

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

AWS Documentation: Machine Learning Training Strategies (<https://aws.amazon.com/machine-learning/>)

### NEW QUESTION # 121

A company wants to use AI to protect its application from threats. The AI solution needs to check if an IP address is from a suspicious source.

Which solution meets these requirements?

- A. Create a natural language processing (NLP) named entity recognition system
- B. Build a speech recognition system
- C. Create a fraud forecasting system
- D. Develop an anomaly detection system

#### Answer: D

### NEW QUESTION # 122

A company is building a solution to generate images for protective eyewear. The solution must have high accuracy and must minimize the risk of incorrect annotations.

Which solution will meet these requirements?

- A. Data augmentation by using an Amazon Bedrock knowledge base
- B. Data summarization by using Amazon QuickSight
- **C. Human-in-the-loop validation by using Amazon SageMaker Ground Truth Plus**
- D. Image recognition by using Amazon Rekognition

**Answer: C**

Explanation:

Amazon SageMaker Ground Truth Plus is a managed data labeling service that includes human-in-the-loop (HITL) validation. This solution ensures high accuracy by involving human reviewers to validate the annotations and reduce the risk of incorrect annotations.

\* Amazon SageMaker Ground Truth Plus:

\* It allows for the creation of high-quality training datasets with human oversight, which minimizes errors in labeling and increases accuracy.

\* Human-in-the-loop workflows help verify the correctness of annotations, ensuring that generated images for protective eyewear meet high-quality standards.

\* Why Option A is Correct:

\* High Accuracy: Human-in-the-loop validation provides the ability to catch and correct errors in annotations, ensuring high-quality data.

\* Minimized Risk of Incorrect Annotations: Human review adds a layer of quality assurance, which is especially important in use cases like generating precise images for protective eyewear.

\* Why Other Options are Incorrect:

\* B. Amazon Bedrock: Does not offer a knowledge base for data augmentation; it focuses on running foundation models.

\* C. Amazon Rekognition: Provides image recognition and analysis, not a solution for minimizing annotation errors.

\* D. Amazon QuickSight: A data visualization tool, not relevant to image annotation or generation tasks.

Thus, A is the correct answer for generating high-accuracy images with minimized annotation risks.

## NEW QUESTION # 123

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