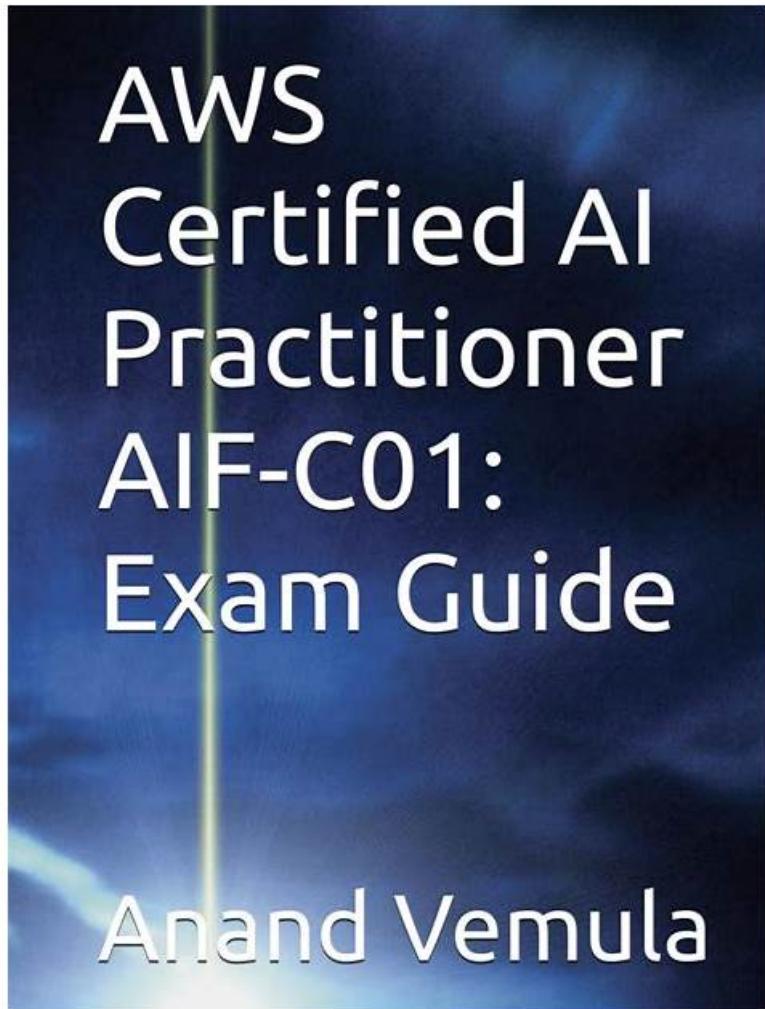


# Amazon AIF-C01 Exam Reference & AIF-C01 Question Explanations



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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>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>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 5	<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>

## Amazon AWS Certified AI Practitioner Sample Questions (Q202-Q207):

### NEW QUESTION # 202

A company has developed a generative text summarization application by using Amazon Bedrock. The company will use Amazon Bedrock automatic model evaluation capabilities.

Which metric should the company use to evaluate the accuracy of the model?

- A. Real World Knowledge (RWK) score
- B. F1 score
- C. BERT Score**
- D. Area Under the ROC Curve (AUC) score

**Answer: C**

Explanation:

The correct answer is C because BERTScore is a commonly used metric to evaluate the semantic similarity between generated text (like summaries) and reference text. It uses contextual embeddings from BERT to compare generated and reference sentences, making it highly suitable for evaluating generative tasks like summarization.

From AWS documentation:

"Amazon Bedrock supports BERTScore for evaluating generative text tasks, such as summarization or translation, by comparing the semantic similarity between the output and a reference." Explanation of other options:

- A). AUC is used for binary classification models, not generative text.
- B). F1 score is also used for classification problems (precision/recall balance).
- D). Real World Knowledge (RWK) score is not a standard or supported evaluation metric in Amazon Bedrock.

Referenced AWS AI/ML Documents and Study Guides:

\* Amazon Bedrock Documentation - Model Evaluation Metrics

\* AWS ML Specialty Guide - Evaluating Generative Models

\* AWS Generative AI Developer Tools

### NEW QUESTION # 203

A company wants to use AWS services to build an AI assistant for internal company use. The AI assistant's responses must reference internal documentation. The company stores internal documentation as PDF, CSV, and image files. Which solution will meet these requirements with the LEAST operational overhead?

- A. Select a pre-trained model from Amazon SageMaker JumpStart.
- B. Configure a guardrail in Amazon Bedrock Guardrails.
- C. Use Amazon SageMaker AI to fine-tune a model.
- D. Use Amazon Bedrock Knowledge Bases to create a knowledge base.

**Answer: D**

Explanation:

The best solution is Amazon Bedrock Knowledge Bases, which allows for the seamless integration of structured and unstructured internal documents-such as PDFs, CSVs, and extracted image text-into a retrieval-augmented generation (RAG) pipeline. According to AWS documentation, Bedrock Knowledge Bases offer a no-code or low-code setup to link your enterprise data with foundation models for context-aware responses, without needing to fine-tune or retrain models. The system indexes documents in an Amazon S3 bucket, creates embeddings, and stores them in a vector store. At inference time, the model retrieves relevant context and incorporates it into its response. This approach provides dynamic and up-to-date responses while maintaining data privacy, with minimal operational overhead. Unlike fine-tuning or building a model from scratch in SageMaker, which requires considerable compute resources and model management, Bedrock Knowledge Bases are serverless and easy to configure. It is designed exactly for internal knowledge AI assistants.

Referenced AWS AI/ML Documents and Study Guides:

Amazon Bedrock Developer Guide - Knowledge Bases

AWS Generative AI Best Practices - RAG Patterns for Enterprise Search

### NEW QUESTION # 204

Which technique can a company use to lower bias and toxicity in generative AI applications during the post-processing ML lifecycle?

- A. Human-in-the-loop
- B. Data augmentation
- C. Feature engineering
- D. Adversarial training

**Answer: A**

Explanation:

The correct answer is A because Human-in-the-loop (HITL) is a post-processing strategy used to monitor, review, and filter outputs from generative AI models for toxicity, bias, or inappropriate content. It allows human reviewers to approve or reject model responses before they are delivered to end-users, ensuring alignment with ethical guidelines and company policies.

From the AWS documentation:

"Human-in-the-loop (HITL) workflows in generative AI are used to validate and approve outputs of models, especially in applications where content quality, compliance, or harm reduction is critical. HITL is a key step in responsible AI implementations to mitigate hallucinations, bias, and unsafe content." Explanation of other options:

B . Data augmentation is a pre-processing technique to increase data diversity, not typically used in post-processing stages.

C . Feature engineering is relevant in traditional ML, especially structured data tasks, not typically used in generative AI post-processing.

D . Adversarial training is a model training strategy, not a post-processing mitigation approach.

Referenced AWS AI/ML Documents and Study Guides:

AWS Responsible AI Practices Whitepaper

AWS Generative AI Developer Guide - Human-in-the-loop and Post-processing Amazon A2I Documentation - Integrating Human Review in ML Workflows

### NEW QUESTION # 205

A company wants to build a customer-facing generative AI application. The application must block or mask sensitive information. The application must also detect hallucinations.

Which solution will meet these requirements with the LEAST operational overhead?

- A. Select a foundation model (FM) that includes policies that remove harmful content by default.
- B. Host a custom-built policy evaluator on Amazon EC2 instances.
- C. Use AWS Lambda functions to build a policy evaluator.
- D. Use Amazon Bedrock Guardrails to implement safeguards for the application based on use cases.

**Answer: D**

Explanation:

Comprehensive and Detailed Explanation (AWS AI documents):

AWS recommends using managed, purpose-built services to enforce safety, compliance, and responsible AI controls in generative AI applications in order to minimize operational complexity and maintenance effort.

Amazon Bedrock Guardrails are specifically designed to help customers:

- \* Block or mask sensitive information, such as personally identifiable information (PII)
- \* Detect and reduce hallucinations by enforcing grounding and response constraints
- \* Apply content filters, topic restrictions, and safety policies consistently across generative AI applications
- \* Configure safeguards without building or managing custom infrastructure. Because Guardrails are fully managed and integrated directly with Amazon Bedrock, they require minimal setup, no custom code for policy enforcement, and no infrastructure management, resulting in the least operational overhead.

Why the other options are less suitable:

- \* A. AWS Lambda policy evaluator requires custom logic, testing, monitoring, and ongoing maintenance.
- \* B. FM default policies alone are insufficient because they do not provide application-specific masking, hallucination detection, or configurable governance controls.
- \* D. Custom EC2-based policy evaluators introduce the highest operational overhead due to server management, scaling, patching, and monitoring.

AWS AI Study Guide References:

- \* Amazon Bedrock overview and safety features
- \* Amazon Bedrock Guardrails for responsible generative AI
- \* AWS best practices for building secure and governed generative AI applications

## NEW QUESTION # 206

An AI practitioner has built a deep learning model to classify the types of materials in images. The AI practitioner now wants to measure the model performance.

Which metric will help the AI practitioner evaluate the performance of the model?

- A. Correlation matrix
- B. R2 score
- C. Confusion matrix
- D. Mean squared error (MSE)

**Answer: C**

Explanation:

A confusion matrix is the correct metric for evaluating the performance of a classification model, such as the deep learning model built to classify types of materials in images.

\* Confusion Matrix:

- \* It is a table used to describe the performance of a classification model by comparing the actual and predicted classifications.
- \* Provides detailed insights into the model's performance, including true positives, true negatives, false positives, and false negatives.

\* Why Option A is Correct:

- \* Performance Measurement: Helps measure various performance metrics like accuracy, precision, recall, and F1-score, which are critical for evaluating a classification model.

\* Comprehensive Evaluation: Allows for a thorough analysis of where the model is making errors and the types of errors being made.

\* Why Other Options are Incorrect:

- \* B. Correlation matrix: Used to identify relationships between variables, not for evaluating classification performance.
- \* C. R2 score: Used for regression models, not classification.
- \* D. Mean squared error (MSE): Also a metric for regression, measuring the average of the squares of the errors.

## NEW QUESTION # 207

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