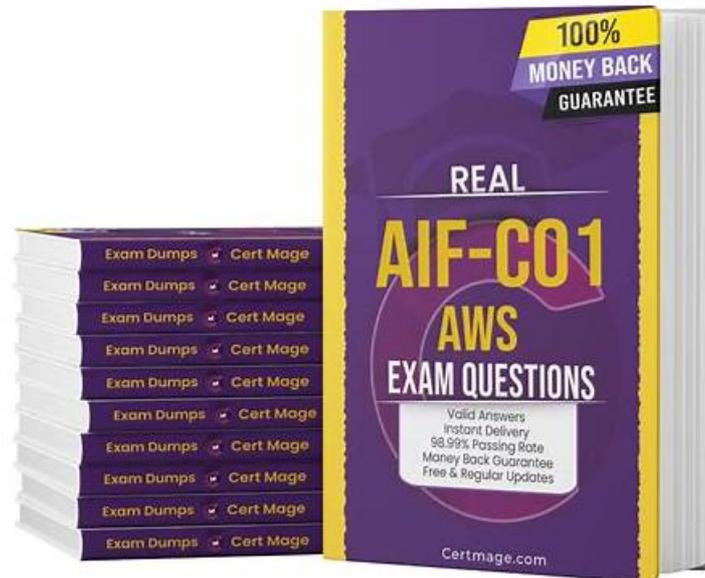


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## Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
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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>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 3	<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 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>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>

## Amazon AWS Certified AI Practitioner Sample Questions (Q33-Q38):

### NEW QUESTION # 33

A food service company wants to collect a dataset to predict customer food preferences. The company wants to ensure that the food preferences of all demographics are included in the data.

- A. Reliability
- B. Accuracy
- C. Recency bias
- D. Diversity

**Answer: D**

Explanation:

- \* Diversity in datasets ensures representation of all demographics, reducing bias and improving fairness.
- \* Accuracy is model performance.
- \* Recency bias skews towards recent data.
- \* Reliability measures consistency of results, not representation.

# Reference:

AWS Responsible AI Guidelines - Data Diversity

### NEW QUESTION # 34

A company wants to fine-tune a foundation model (FM) for a specific use case. The company needs to deploy the FM on Amazon Bedrock for internal use.

Which solution will meet these requirements?

- A. Use conversational builder for Amazon Bedrock Agents to create the custom model.
- B. Run responses that have been generated by a pre-trained FM through Amazon Bedrock Guardrails to create the custom FM.
- C. Use Amazon SageMaker AI to customize the FM. Then, import the trained model into Amazon Bedrock.
- D. Use Amazon Personalize to customize the FM with custom data.

**Answer: C**

Explanation:

Comprehensive and Detailed Explanation From Exact AWS AI documents:

Amazon Bedrock supports importing custom foundation models that have been trained or fine-tuned outside of Bedrock, including models customized using Amazon SageMaker AI.

Amazon SageMaker AI provides:

- \* Full control over model training and fine-tuning
- \* Ability to train models using approved internal datasets
- \* Advanced customization beyond prompt-based techniques

After customization in SageMaker, the trained model can be imported into Amazon Bedrock for managed, scalable inference and internal deployment.

Why the other options are incorrect:

- \* A (Guardrails) enforce safety, compliance, and output controls; they do not create or fine-tune models.
- \* B (Amazon Personalize) is a recommendation service, not a foundation model customization tool.
- \* C (Agents) orchestrate tasks and tool usage but do not modify or fine-tune model weights.

AWS AI document references:

- \* Amazon Bedrock Documentation - section on Custom model import
- \* Amazon SageMaker AI Overview - section on model training and fine-tuning
- \* Foundation Models on AWS - customization approaches

### NEW QUESTION # 35

Which option is a disadvantage of using generative AI models in production systems?

- A. Possible high accuracy and reliability
- **B. Hallucinations and inaccuracies**
- C. Negligible computational resource requirements
- D. Deterministic and consistent behavior

**Answer: B**

Explanation:

AWS documentation identifies hallucinations and inaccuracies as a key challenge when deploying generative AI models in production environments. Hallucinations occur when a model generates responses that are plausible-sounding but factually incorrect, unsupported, or misleading.

Generative AI models are probabilistic by nature and do not have an inherent understanding of truth. AWS emphasizes that these models generate outputs based on patterns learned from training data, which can lead to confident but incorrect responses, especially when prompts lack sufficient context or when the model is asked about information outside its training scope.

The other options do not represent disadvantages. High accuracy and reliability are desired outcomes, not limitations. Deterministic behavior is not typical of generative models and is not a disadvantage. Negligible computational requirements are incorrect, as generative models typically require significant compute resources.

AWS recommends mitigation strategies such as Retrieval Augmented Generation, human review, prompt engineering, and output validation to reduce hallucinations. Nevertheless, hallucinations remain a known risk, making this option the correct answer.

### NEW QUESTION # 36

An ecommerce company is deploying a chatbot. The chatbot will give users the ability to ask questions about the company's products and receive details on users' orders. The company must implement safeguards for the chatbot to filter harmful content from the input prompts and chatbot responses.

Which AWS feature or resource meets these requirements?

- A. Amazon Bedrock Agents
- B. Amazon Bedrock custom models
- **C. Amazon Bedrock Guardrails**
- D. Amazon Bedrock inference APIs

**Answer: C**

Explanation:

The ecommerce company is deploying a chatbot that needs safeguards to filter harmful content from input prompts and responses. Amazon Bedrock Guardrails provide mechanisms to ensure responsible AI usage by filtering harmful content, such as hate speech, violence, or misinformation, making it the appropriate feature for this requirement.

Exact Extract from AWS AI Documents:

From the AWS Bedrock User Guide:

"Amazon Bedrock Guardrails enable developers to implement safeguards for generative AI applications, such as chatbots, by filtering harmful content in input prompts and model responses. Guardrails include content filters, word filters, and denied topics to ensure safe and responsible outputs." (Source: AWS Bedrock User Guide, Guardrails for Responsible AI) Detailed Option A: Amazon Bedrock Guardrails This is the correct answer. Amazon Bedrock Guardrails are specifically designed to filter harmful content from chatbot inputs and responses, ensuring safe interactions for users.

Option B: Amazon Bedrock Agents Amazon Bedrock Agents are used to automate tasks and integrate with external tools, not to filter harmful content. This option does not meet the requirement.

Option C: Amazon Bedrock inference APIs Amazon Bedrock inference APIs allow users to invoke foundation models for generating responses, but they do not provide built-in content filtering mechanisms.

Option D: Amazon Bedrock custom models Custom models on Amazon Bedrock allow users to fine-tune models, but they do not inherently include safeguards for filtering harmful content unless explicitly implemented.

Reference:

AWS Bedrock User Guide: Guardrails for Responsible AI (<https://docs.aws.amazon.com/bedrock/latest/userguide/guardrails.html>)

AWS AI Practitioner Learning Path: Module on Responsible AI and Model Safety Amazon Bedrock Developer Guide: Building Safe AI Applications (<https://aws.amazon.com/bedrock/>)

### NEW QUESTION # 37

Which AWS service or feature stores embeddings in a vector database for use with foundation models (FMs) and Retrieval Augmented Generation (RAG)?

- A. Amazon Transcribe
- **B. Amazon OpenSearch Service**
- C. Amazon Textract
- D. Amazon SageMaker Ground Truth

**Answer: B**

### NEW QUESTION # 38

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