

# Valid Real Amazon AIF-C01 Exam - AIF-C01 New Study Materials



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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 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>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 4	<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 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 New Study Materials & AIF-C01 New Study Questions

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### Amazon AWS Certified AI Practitioner Sample Questions (Q281-Q286):

#### NEW QUESTION # 281

A hospital developed an AI system to provide personalized treatment recommendations for patients. The AI system must provide the rationale behind the recommendations and make the insights accessible to doctors and patients. Which human-centered design principle does this scenario present?

- A. Explainability
- B. Fairness
- C. Privacy and security
- D. Data governance

**Answer: A**

Explanation:

Explainability refers to the ability of an AI system to make its decision-making process clear and understandable to humans.

A is correct:

"Explainability is crucial for human-centered AI, especially in healthcare, to ensure that doctors and patients understand the rationale behind AI-driven recommendations." (Reference: AWS Responsible AI) B relates to protecting data, not explanations.

C is about treating groups equally.

D is about managing data lifecycle, not providing rationales.

#### NEW QUESTION # 282

A company wants to classify human genes into 20 categories based on gene characteristics. The company needs an ML algorithm to document how the inner mechanism of the model affects the output.

Which ML algorithm meets these requirements?

- A. Decision trees
- B. Logistic regression
- C. Neural networks
- D. Linear regression

**Answer: A**

Explanation:

Decision trees are an interpretable machine learning algorithm that clearly documents the decision-making process by showing how each input feature affects the output. This transparency is particularly useful when explaining how the model arrives at a certain decision, making it suitable for classifying genes into categories.

Option A (Correct): "Decision trees": This is the correct answer because decision trees provide a clear and interpretable representation of how input features influence the model's output, making it ideal for understanding the inner mechanisms affecting predictions.

Option B: "Linear regression" is incorrect because it is used for regression tasks, not classification.

Option C: "Logistic regression" is incorrect as it does not provide the same level of interpretability in documenting decision-making processes.

Option D: "Neural networks" is incorrect because they are often considered "black boxes" and do not easily explain how they arrive at their outputs.

AWS AI Practitioner Reference:

Interpretable Machine Learning Models on AWS: AWS supports using interpretable models, such as decision trees, for tasks that require clear documentation of how input data affects output decisions.

#### NEW QUESTION # 283

A company wants to implement a large language model (LLM)-based chatbot to provide customer service agents with real-time

contextual responses to customers' inquiries. The company will use the company's policies as the knowledge base.

- A. Implement Retrieval Augmented Generation (RAG) for in-context responses.
- B. Use pre-training and data augmentation on the company policy data.
- C. Retrain the LLM on the company policy data.
- D. Fine-tune the LLM on the company policy data.

**Answer: A**

Explanation:

- \* Retraining or pre-training is costly and unnecessary for just using company policies.
- \* Fine-tuning adapts models but is inefficient for frequently changing company documents.
- \* Retrieval-Augmented Generation (RAG) is the best approach - it retrieves relevant policy documents from a knowledge base and feeds them into the model context in real time, ensuring accurate and up-to-date responses.

# Reference:

AWS Documentation - RAG with Amazon Bedrock

#### NEW QUESTION # 284

A bank is building a chatbot to answer customer questions about opening a bank account. The chatbot will use public bank documents to generate responses. The company will use Amazon Bedrock and prompt engineering to improve the chatbot's responses.

Which prompt engineering technique meets these requirements?

- A. Few-shot prompting
- B. Complexity-based prompting
- C. Directional stimulus prompting
- D. Zero-shot prompting

**Answer: C**

Explanation:

Directional stimulus prompting guides the foundation model to produce outputs aligned with business context. It's particularly effective for aligning responses with public documents and improving coherence. From Bedrock Prompt Engineering Techniques documentation:

"Directional stimulus prompting provides structured prompts to steer the model output towards desired formats or behaviors using specific linguistic cues."

#### NEW QUESTION # 285

An AI practitioner has prepared a dataset for training models in Amazon SageMaker AI. The AI practitioner wants to share the dataset within the company so that future employees can discover and reuse the dataset.

Which solution will meet these requirements?

- A. Copy the training dataset to Amazon Bedrock Knowledge Bases.
- B. Upload the training data to a shared SageMaker notebook instance.
- C. Store the training data in SageMaker Feature Store.
- D. Upload the training data to AWS Data Exchange.

**Answer: C**

Explanation:

Comprehensive and Detailed Explanation (AWS AI documents):

AWS recommends Amazon SageMaker Feature Store as a centralized, managed repository for storing, discovering, and reusing features and datasets across teams and projects. Feature Store enables:

- \* Feature discovery through searchable metadata
- \* Reusability of curated datasets and features by future practitioners
- \* Consistency between training and inference datasets
- \* Governance and lineage, supporting responsible AI practices

Why the other options are incorrect:

- \* A is intended for retrieval-augmented generation, not dataset sharing.

- \* B does not provide discoverability, governance, or long-term reuse.
- \* D is designed for sharing data with external subscribers, not internal ML teams.

AWS AI Study Guide References:

- \* Amazon SageMaker Feature Store overview
- \* AWS best practices for feature management and reuse

## NEW QUESTION # 286

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