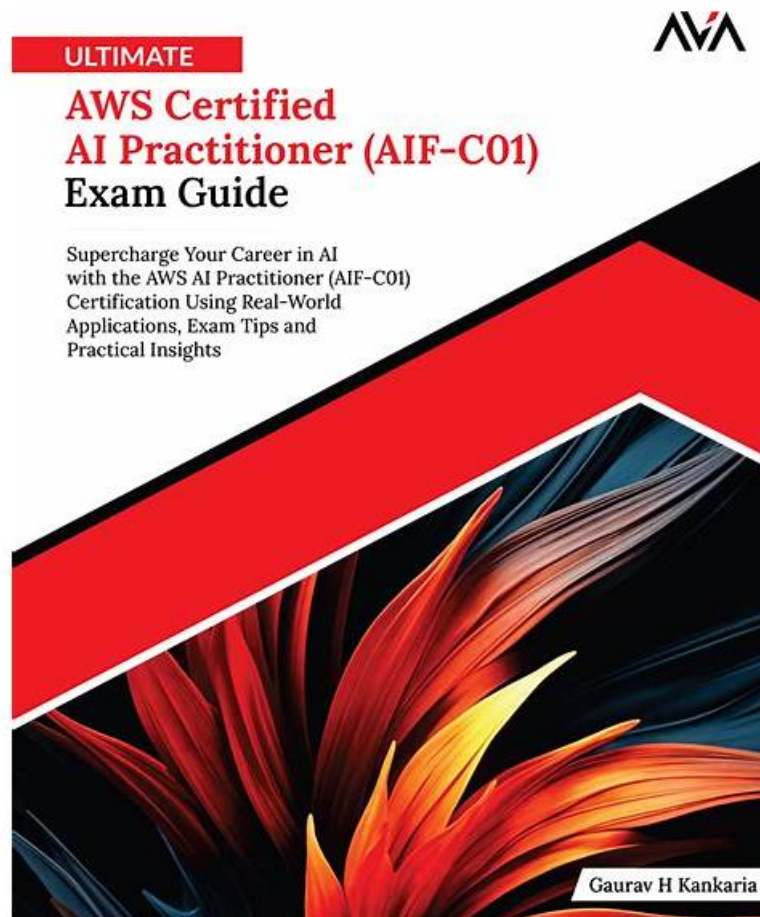


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Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• 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.
Topic 2	<ul style="list-style-type: none">• 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.
Topic 3	<ul style="list-style-type: none">• 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.
Topic 4	<ul style="list-style-type: none">• 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.
Topic 5	<ul style="list-style-type: none">• 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.

Amazon AWS Certified AI Practitioner Sample Questions (Q20-Q25):

NEW QUESTION # 20

A company wants to improve a large language model (LLM) for content moderation within 3 months. The company wants the model to moderate content according to the company's values and ethics. The LLM must also be able to handle emerging trends and new types of problematic content.

Which solution will meet these requirements?

- A. Conduct reinforcement learning from human feedback (RLHF) by using real-time input from skilled moderators.
- B. Create a high-quality dataset of historical moderation decisions.
- C. Conduct continuous pre-training on a large amount of text-based internet content.
- D. Fine-tune the LLM on a diverse set of general ethical guidelines from various sources.

Answer: A

Explanation:

Reinforcement learning from human feedback (RLHF) is the most effective approach to align large language models with company-specific values, ethics, and evolving moderation requirements. AWS documentation explains that RLHF uses direct human input to guide model behavior, enabling models to learn preferences that cannot be fully captured through static datasets or generic fine-tuning.

In this scenario, the company requires improvement within a short time frame of three months, alignment with organizational ethics, and adaptability to emerging trends and new forms of harmful content. RLHF meets these needs by incorporating real-time feedback from skilled human moderators, allowing the model to rapidly adjust its responses based on expert judgment.

AWS highlights that RLHF is particularly valuable for content moderation, safety alignment, and policy enforcement, where nuanced decisions and evolving standards are common. By rewarding desirable behaviors and penalizing undesirable outputs, the model continuously improves in a controlled and targeted manner.

The other options are less suitable. Continuous pre-training on large internet datasets is time-consuming, resource-intensive, and may introduce content misaligned with company values. Historical moderation datasets may not reflect new or emerging content patterns. Fine-tuning on general ethical guidelines lacks the specificity required for company-defined moderation policies and does not adapt quickly to new risks.

AWS positions RLHF as a key technique in responsible generative AI development, enabling organizations to maintain human oversight while improving model safety and alignment. Therefore, using RLHF with real-time input from skilled moderators is the

most effective and compliant solution for this use case.

NEW QUESTION # 21

A company wants to improve multiple ML models.

Select the correct technique from the following list of use cases. Each technique should be selected one time or not at all. (Select THREE.) Few-shot learning Fine-tuning Retrieval Augmented Generation (RAG) Zero-shot learning

Answer:

Explanation:

AWS References:

Amazon Bedrock - Retrieval Augmented Generation (RAG)

AWS Generative AI Guide - Zero-shot & Few-shot learning

NEW QUESTION # 22

Which option describes embeddings in the context of AI?

- A. A method for visualizing high-dimensional data
- B. An encryption method for securing sensitive data
- C. A method for compressing large datasets
- **D. A numerical method for data representation in a reduced dimensionality space**

Answer: D

Explanation:

Embeddings in AI refer to numerical representations of data (e.g., text, images) in a lower-dimensional space, capturing semantic or contextual relationships. They are widely used in NLP and other AI tasks to represent complex data in a format that models can process efficiently.

Exact Extract from AWS AI Documents:

From the AWS AI Practitioner Learning Path:

"Embeddings are numerical representations of data in a reduced dimensionality space. In natural language processing, for example, word or sentence embeddings capture semantic relationships, enabling models to process text efficiently for tasks like classification or similarity search." (Source: AWS AI Practitioner Learning Path, Module on AI Concepts) Detailed Explanation:

Option A: A method for compressing large datasets While embeddings reduce dimensionality, their primary purpose is not data compression but rather to represent data in a way that preserves meaningful relationships.

This option is incorrect.

Option B: An encryption method for securing sensitive data Embeddings are not related to encryption or data security. They are used for data representation, making this option incorrect.

Option C: A method for visualizing high-dimensional data While embeddings can sometimes be used in visualization (e.g., t-SNE), their primary role is data representation for model processing, not visualization.

This option is misleading.

Option D: A numerical method for data representation in a reduced dimensionality space This is the correct answer. Embeddings transform complex data into lower-dimensional numerical vectors, preserving semantic or contextual information for use in AI models.

References:

AWS AI Practitioner Learning Path: Module on AI Concepts

Amazon Comprehend Developer Guide: Embeddings for Text Analysis (<https://docs.aws.amazon.com/comprehend/latest/dg/embeddings.html>)

AWS Documentation: What are Embeddings? (<https://aws.amazon.com/what-is/embeddings/>)

NEW QUESTION # 23

An ML research team develops custom ML models. The model artifacts are shared with other teams for integration into products and services. The ML team retains the model training code and data. The ML team wants to build a mechanism that the ML team can use to audit models.

Which solution should the ML team use when publishing the custom ML models?

- A. Use AWS AI Service Cards for transparency and understanding models.

- B. Create model training scripts. Commit the model training scripts to a Git repository.
- **C. Create Amazon SageMaker Model Cards with Intended uses and training and inference details.**
- D. Create documents with the relevant information. Store the documents in Amazon S3.

Answer: C

Explanation:

The ML research team needs a mechanism to audit custom ML models while sharing model artifacts with other teams. Amazon SageMaker Model Cards provide a structured way to document model details, including intended uses, training data, and inference performance, making them ideal for auditing and ensuring transparency when publishing models.

Exact Extract from AWS AI Documents:

From the Amazon SageMaker Developer Guide:

"Amazon SageMaker Model Cards enable you to document critical details about your machine learning models, such as intended uses, training data, evaluation metrics, and inference details. Model Cards support auditing by providing a centralized record that can be reviewed by teams to understand model behavior and limitations." (Source: Amazon SageMaker Developer Guide, SageMaker Model Cards) Detailed Explanation:

* Option A: Create documents with the relevant information. Store the documents in Amazon S3.

While storing documents in S3 is feasible, it lacks the structured format and integration with SageMaker that Model Cards provide, making it less suitable for auditing purposes.

* Option B: Use AWS AI Service Cards for transparency and understanding models. AWS AI Service Cards are not a standard feature in AWS documentation. This option appears to be a distractor and is not a valid solution.

* Option C: Create Amazon SageMaker Model Cards with Intended uses and training and inference details. This is the correct answer. SageMaker Model Cards are specifically designed to document model details for auditing, transparency, and collaboration, meeting the team's requirements.

* Option D: Create model training scripts. Commit the model training scripts to a Git repository.

Sharing training scripts in a Git repository provides access to code but does not offer a structured auditing mechanism for model details like intended uses or inference performance.

References:

Amazon SageMaker Developer Guide: SageMaker Model Cards (<https://docs.aws.amazon.com/sagemaker/latest/dg/model-cards.html>)

AWS AI Practitioner Learning Path: Module on Model Governance and Auditing AWS Documentation: Responsible AI with SageMaker (<https://aws.amazon.com/sagemaker/>)

NEW QUESTION # 24

A company is developing an ML model to predict heart disease risk. The model uses patient data, such as age, cholesterol, blood pressure, smoking status, and exercise habits. The dataset includes a target value that indicates whether a patient has heart disease. Which ML technique will meet these requirements?

- A. Reinforcement learning
- **B. Supervised learning**
- C. Unsupervised learning
- D. Semi-supervised learning

Answer: B

NEW QUESTION # 25

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