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Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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	• 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.
Topic 4	• 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	• 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.

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Amazon AWS Certified AI Practitioner Sample Questions (Q147-Q152):

NEW QUESTION # 147
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 continuous pre-training on a large amount of text-based internet content.
- B. Conduct reinforcement learning from human feedback (RLHF) by using real-time input from skilled moderators.
- C. Create a high-quality dataset of historical moderation decisions.
- D. Fine-tune the LLM on a diverse set of general ethical guidelines from various sources.

Answer: B

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 # 148
HOTSPOT
A company is training its employees on how to structure prompts for foundation models.
Select the correct prompt engineering technique from the following list for each prompt template. Each prompt engineering technique should be selected onetime. (SelectTHREE.)
* Chain-of-thought reasoning
* Few-shot learning
* Zero-shot learning
☐

Answer:

Explanation:
☐
Explanation:
Zero-shot learning is when the model is asked to perform a task without being given any examples. The prompt simply describes the task and relies on the model's pre-trained knowledge.
(Reference: Amazon Bedrock Prompt Engineering Guide)
Few-shot learning provides a few examples (shots) in the prompt to show the model how to solve the task before asking it to complete a similar task.
(Reference: Amazon Bedrock Prompt Engineering Guide)

Chain-of-thought reasoning encourages the model to reason step by step and explain its thinking for more complex or logical tasks.
(Reference: AWS Chain-of-Thought Prompting)

NEW QUESTION # 149
HOTSPOT
Select the correct AI term from the following list for each statement. Each AI term should be selected one time. (Select THREE.)
* AI
* Deep learning
* ML
  □

Answer:

Explanation:
  □
Explanation:
Artificial Intelligence (AI) is the broad field focused on simulating human problem-solving and cognitive abilities, including reasoning, perception, and decision-making.
(Reference: AWS Certified AI Practitioner Official Study Guide)
Machine Learning (ML) is a subset of AI that uses data-driven algorithms to identify patterns and make predictions without explicit programming for each specific task.
(Reference: AWS Machine Learning Overview)
Deep learning is a subset of ML that uses neural networks with many layers (deep neural networks) to process complex data and extract high-level features.
(Reference: AWS Deep Learning on AWS)

NEW QUESTION # 150
Which scenario represents a practical use case for generative AI?

- **A. Employing a chatbot to provide human-like responses to customer queries in real time**
- B. Using an ML model to forecast product demand
- C. Using an analytics dashboard to track website traffic and user behavior
- D. Implementing a rule-based recommendation engine to suggest products to customers

Answer: A

Explanation:
Generative AI is a type of AI that creates new content, such as text, images, or audio, often mimicking human- like outputs. A practical use case for generative AI is employing a chatbot to provide human-like responses to customer queries in real time, as it leverages the ability of large language models (LLMs) to generate natural language responses dynamically.
Exact Extract from AWS AI Documents:
From the AWS Bedrock User Guide:
"Generative AI enables applications like chatbots to produce human-like text responses in real time, enhancing customer support by providing natural and contextually relevant answers to user queries." (Source: AWS Bedrock User Guide, Introduction to Generative AI) Detailed Explanation:
* Option A: Using an ML model to forecast product demandForecasting product demand typically involves predictive analytics using supervised learning (e.g., regression models), not generative AI, which focuses on creating new content.
* Option B: Employing a chatbot to provide human-like responses to customer queries in real time This is the correct answer. Generative AI, particularly LLMs, is commonly used to power chatbots that generate human-like responses, making this a practical use case.
* Option C: Using an analytics dashboard to track website traffic and user behaviorAn analytics dashboard involves data visualization and analysis, not generative AI, which is about creating new content.
* Option D: Implementing a rule-based recommendation engine to suggest products to customersA rule-based recommendation engine relies on predefined rules, not generative AI. Generative AI could be used for more dynamic recommendations, but this scenario does not describe such a case.
References:
AWS Bedrock User Guide: Introduction to Generative AI (https://docs.aws.amazon.com/bedrock/latest/userguide/what-is-bedrock.html)
AWS AI Practitioner Learning Path: Module on Generative AI Applications AWS Documentation: Generative AI Use Cases (https://aws.amazon.com/generative-ai/)

NEW QUESTION # 151

A company is using domain-specific models. The company wants to avoid creating new models from the beginning. The company instead wants to adapt pre-trained models to create models for new, related tasks.

Which ML strategy meets these requirements?

- A. Use unsupervised learning.
- B. Increase the number of epochs.
- C. Use transfer learning.
- D. Decrease the number of epochs.

Answer: C

NEW QUESTION # 152

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