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Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 3	• 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 4	• 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 5	• 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.

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Amazon AWS Certified AI Practitioner Sample Questions (Q165-Q170):

NEW QUESTION # 165
A company wants to create a chatbot that answers questions about human resources policies. The company is using a large language model (LLM) and has a large digital documentation base.
Which technique should the company use to optimize the generated responses?

- A. Use Retrieval Augmented Generation (RAG).
- B. Decrease the token size.
- C. Use few-shot prompting.
- D. Set the temperature to 1.

Answer: A

Explanation:
The company is building a chatbot using an LLM to answer questions about HR policies, with access to a large digital documentation base. Retrieval Augmented Generation (RAG) optimizes the LLM's responses by retrieving relevant information from the documentation base and using it to generate accurate, contextually grounded answers, reducing hallucinations and improving response quality.
Exact Extract from AWS AI Documents:
From the AWS Bedrock User Guide:
"Retrieval Augmented Generation (RAG) enhances the performance of large language models by retrieving relevant information from external knowledge bases, such as documentation or databases, and incorporating it into the generation process. This technique ensures responses are accurate and grounded in the provided data, making it ideal for applications like policy chatbots." (Source: AWS Bedrock User Guide, Retrieval Augmented Generation) Detailed Option A: Use Retrieval Augmented Generation (RAG).This is the correct answer. RAG leverages the documentation base to provide the LLM with relevant HR policy information, optimizing the chatbot's responses for accuracy and relevance.
Option B: Use few-shot prompting.Few-shot prompting provides a few examples in the prompt to guide the LLM, but it is less effective than RAG for large documentation bases, as it cannot dynamically retrieve specific policy details.
Option C: Set the temperature to 1.Setting the temperature to 1 controls the randomness of the LLM's output but does not optimize responses using external documentation. This option is unrelated to the documentation base.
Option D: Decrease the token size.Decreasing token size (likely referring to limiting input/output tokens) may reduce response length but does not optimize the quality of responses using the documentation base.
Reference:
AWS Bedrock User Guide: Retrieval Augmented Generation (https://docs.aws.amazon.com/bedrock/latest/userguide/rag.html)
AWS AI Practitioner Learning Path: Module on Generative AI Optimization Amazon Bedrock Developer Guide: Building Policy Chatbots (https://aws.amazon.com/bedrock/)

NEW QUESTION # 166
A financial company uses a generative AI model to assign credit limits to new customers. The company wants to make the decision-making process of the model more transparent to its customers.

- A. Use a rule-based system instead of an ML model.
- B. Apply explainable AI techniques to show customers which factors influenced the model's decision.
- C. Increase the accuracy of the model to reduce the need for transparency.
- D. Develop an interactive UI for customers and provide clear technical explanations about the system.

Answer: B

Explanation:
According to the AWS Certified AI Practitioner documentation, explainable AI (XAI) refers to methods and techniques that make the behavior and predictions of machine learning models more understandable and transparent to users and stakeholders. In financial use cases, especially when decisions such as credit limits are made, regulatory and ethical concerns demand transparency about how such decisions are reached.
Option B is correct because applying explainable AI techniques (such as SHAP, LIME, or Amazon SageMaker Clarify) allows organizations to provide customers with clear insights into which data points or factors contributed to the model's decision. This aligns with best practices for responsible AI as defined in the AWS documentation, which states:
"Explainable AI increases transparency and trust in machine learning applications by helping users and regulators understand the decision process behind model predictions." (Reference: AWS AI/ML Best Practices - Explainable AI, AWS AI Practitioner Exam Guide) Option A suggests switching to a rule-based system, which is not practical for complex problems addressed by generative AI and may reduce model performance.
Option C (just a UI) does not inherently provide transparency into the model's reasoning, unless paired with explainability techniques.
Option D (accuracy over transparency) does not address the company's requirement for transparency.
Reference:
AWS Certified AI Practitioner Exam Guide
Amazon SageMaker Clarify Documentation

NEW QUESTION # 167
Which task represents a practical use case to apply a regression model?

- A. Create a picture that shows a specific object.
- B. Suggest a genre of music for a listener from a list of genres.
- C. Use historical data to predict future temperatures in a specific city.
- D. Cluster movies based on movie ratings and viewers.

Answer: C

Explanation:
Comprehensive and Detailed
Regression predicts continuous numerical values (e.g., stock prices, temperatures).
A is classification (genre selection).
B is clustering.
D is generative AI/computer vision.
Reference:
AWS ML Glossary - Regression

NEW QUESTION # 168
A company wants to collaborate with several research institutes to develop an AI model. The company needs standardized documentation of model version tracking and a record of model development.
Which solution meets these requirements?

- A. Track the model changes by using Git.
- B. Track the model changes by using Amazon Comprehend.
- C. Track the model changes by using Amazon SageMaker Model Cards.
- D. Track the model changes by using Amazon Fraud Detector.

Answer: C

Explanation:
Amazon SageMaker Model Cards provide a standardized way to document and track model information, including versions and performance. According to AWS documentation:
"SageMaker Model Cards provide a single source of truth for model information including intended use, training details, evaluation metrics, and ethical considerations to support governance and collaboration."

NEW QUESTION # 169

An AI practitioner has a database of animal photos. The AI practitioner wants to automatically identify and categorize the animals in the photos without manual human effort.
Which strategy meets these requirements?

- A. Inpainting
- B. Anomaly detection
- C. Named entity recognition
- D. Object detection

Answer: D

NEW QUESTION # 170
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