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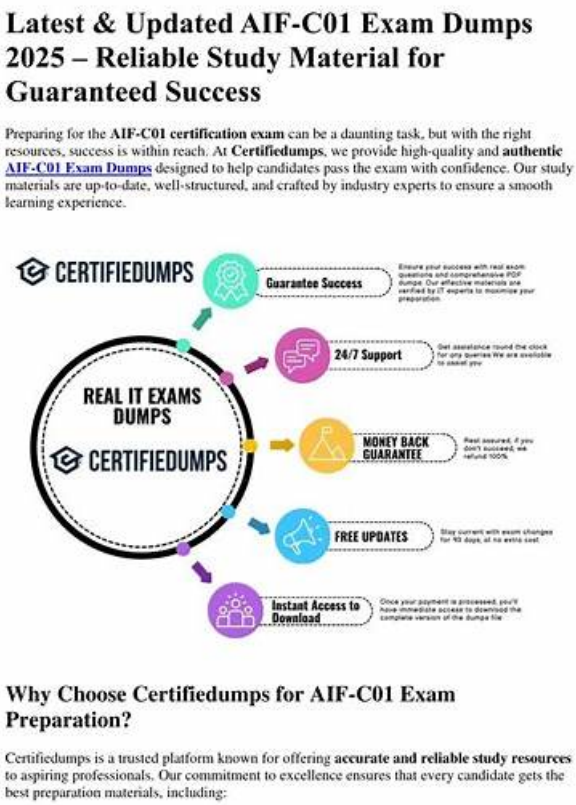

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Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 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	• 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.

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Amazon AWS Certified AI Practitioner Sample Questions (Q60-Q65):

NEW QUESTION # 60
A company wants to use a large language model (LLM) on Amazon Bedrock for sentiment analysis. The company wants to classify the sentiment of text passages as positive or negative.
Which prompt engineering strategy meets these requirements?

- A. Provide examples of text passages with corresponding positive or negative labels in the prompt followed by the new text passage to be classified.
- B. Provide the new text passage with a few examples of unrelated tasks, such as text summarization or question answering.
- C. Provide a detailed explanation of sentiment analysis and how LLMs work in the prompt.
- D. Provide the new text passage to be classified without any additional context or examples.

Answer: A

NEW QUESTION # 61
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. Logistic regression
- B. Linear regression
- C. Neural networks
- D. Decision trees

Answer: D

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 References:
* 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 # 62
A pharmaceutical company wants to analyze user reviews of new medications and provide a concise overview for each medication.
Which solution meets these requirements?

- A. Create medication review summaries by using Amazon Bedrock large language models (LLMs).
- B. Create a classification model that categorizes medications into different groups by using Amazon SageMaker.
- C. Create a time-series forecasting model to analyze the medication reviews by using Amazon Personalize.
- D. Create medication review summaries by using Amazon Rekognition.

Answer: A

Explanation:
Amazon Bedrock provides large language models (LLMs) that are optimized for natural language understanding and text summarization tasks, making it the best choice for creating concise summaries of user reviews. Time-series forecasting, classification, and image analysis (Rekognition) are not suitable for summarizing textual data. References: AWS Bedrock Documentation.

NEW QUESTION # 63
An AI practitioner is using a large language model (LLM) to create content for marketing campaigns. The generated content sounds plausible and factual but is incorrect.
Which problem is the LLM having?

- A. Hallucination
- B. Underfitting
- C. Data leakage
- D. Overfitting

Answer: A

NEW QUESTION # 64
A company is using Amazon Bedrock Agents to build an application to automate business workflows.

- A. To evaluate user inputs and orchestrate actions for multiple tasks
- B. To invoke foundation models (FMs) to process visual, audio, and text inputs
- C. To provide users with full control of querying external data sources and APIs
- D. To enhance foundation models (FMs) with a prompting strategy

Answer: A

NEW QUESTION # 65
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