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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	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 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	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 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 (Q216-Q221):

NEW QUESTION # 216

An animation company wants to provide subtitles for its content. Which AWS service meets this requirement?

- A. Amazon Translate
- **B. Amazon Transcribe**
- C. Amazon Polly
- D. Amazon Comprehend

Answer: B

Explanation:

Amazon Transcribe is the AWS service that converts speech to text, enabling the generation of subtitles (closed captions) for audio and video content automatically.

C is correct:

"Amazon Transcribe is an automatic speech recognition (ASR) service that makes it easy for developers to add speech-to-text capability to applications." This feature supports creating subtitles and transcripts for media files.

(Reference: Amazon Transcribe Overview, AWS AI Practitioner Official Study Guide) This feature supports creating subtitles and transcripts for media files.

"Amazon Transcribe is an automatic speech recognition (ASR) service that makes it easy for developers to add speech-to-text capability to applications." This feature supports creating subtitles and transcripts for media files.

(Reference: Amazon Transcribe Overview, AWS AI Practitioner Official Study Guide) A (Comprehend) is for NLP/text analytics.

B (Polly) is text-to-speech.

D (Translate) translates text, but does not create subtitles from audio/video.

NEW QUESTION # 217

Which scenario represents a practical use case for generative AI?

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

Answer: B

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 demand Forecasting 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 behavior An 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 customers A 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 # 218

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

Answer: C

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 # 219

A company wants to build an interactive application for children that generates new stories based on classic stories. The company wants to use Amazon Bedrock and needs to ensure that the results and topics are appropriate for children.

Which AWS service or feature will meet these requirements?

- **A. Guardrails for Amazon Bedrock**
- B. Agents for Amazon Bedrock
- C. Amazon Rekognition
- D. Amazon Bedrock playgrounds

Answer: A

NEW QUESTION # 220

A company is building an AI application to summarize books of varying lengths. During testing, the application fails to summarize some books. Why does the application fail to summarize some books?

- **A. The input tokens exceed the model's context size.**
- B. The selected model does not support fine-tuning.

- Answer: A**

- * Foundation models have a context window (max tokens), which limits the size of the input text (prompt + instructions).
- * If the input (e.g., a very long book) exceeds this limit, the model cannot process it, causing failure.
- * Temperature (A) and Top P (C) control randomness, not input size.
- * Fine-tuning (B) is irrelevant to input truncation failures.

AWS Documentation - Amazon Bedrock Model Parameters (context size limits)

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