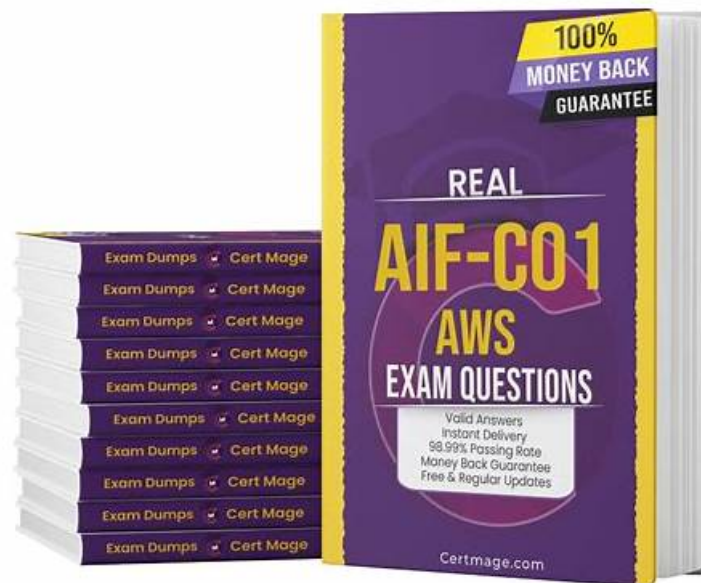


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>> Key AIF-C01 Concepts <<

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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"> • 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 4	<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 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 (Q83-Q88):

NEW QUESTION # 83

What is tokenization used for in natural language processing (NLP)?

- A. To translate text between languages
- B. To compress text files
- C. To encrypt text data
- **D. To break text into smaller units for processing**

Answer: D

Explanation:

The correct answer is C because tokenization is the NLP process of breaking down text into smaller units, such as words, subwords, or characters, that can be processed by ML models.

From AWS documentation:

"Tokenization is the process of splitting text into meaningful units, such as words or subwords, that are used as input tokens in NLP tasks. Tokenization is an essential step in preparing text data for models." This is a foundational concept used in language models, including those on Amazon Bedrock and SageMaker.

Explanation of other options:

A). Encryption is not related to NLP and is used for data security.

B). Compression reduces file size but is unrelated to language processing.

D). Translation is a separate NLP task that uses tokenization as a preprocessing step but is not the definition of tokenization itself.

Referenced AWS AI/ML Documents and Study Guides:

- * AWS NLP on Amazon SageMaker Documentation
- * AWS Machine Learning Specialty Guide - NLP Fundamentals
- * Amazon Bedrock Foundation Model Documentation - Tokenization and Input Formatting

NEW QUESTION # 84

Which technique breaks a complex task into smaller subtasks that are sent sequentially to a large language model (LLM)?

- **A. Prompt chaining**
- B. One-shot prompting
- C. Tree of thoughts

- D. Retrieval Augmented Generation (RAG)

Answer: A

Explanation:

Prompt chaining is a technique where a complex task is broken into smaller subtasks, and the outputs of one subtask are used as inputs for the next, sequentially guiding a large language model (LLM) to solve the problem step-by-step. This method is particularly useful for complex tasks that require multiple reasoning steps.

Exact Extract from AWS AI Documents:

From the AWS Bedrock User Guide:

"Prompt chaining involves breaking a complex task into smaller subtasks and sequentially passing the output of one subtask as input to the next, enabling large language models to handle intricate problems by solving them step-by-step." (Source: AWS Bedrock User Guide, Prompt Engineering Techniques) Detailed Option A: One-shot promptingOne-shot prompting provides a single example to guide the LLM, but it does not break tasks into smaller subtasks or handle sequential processing.

Option B: Prompt chainingThis is the correct answer. Prompt chaining divides a complex task into smaller, manageable subtasks, solving them sequentially with the LLM, as described.

Option C: Tree of thoughtsTree of thoughts involves exploring multiple reasoning paths simultaneously, not breaking tasks into sequential subtasks.

Option D: Retrieval Augmented Generation (RAG)RAG retrieves external information to augment LLM responses but does not specifically break tasks into sequential subtasks.

Reference:

AWS Bedrock User Guide: Prompt Engineering Techniques (<https://docs.aws.amazon.com/bedrock/latest/userguide/prompt-engineering.html>) AWS AI Practitioner Learning Path: Module on Generative AI Prompting Amazon Bedrock Developer Guide: Advanced Prompting Strategies (<https://aws.amazon.com/bedrock/>)

NEW QUESTION # 85

An AI practitioner is writing software code. The AI practitioner wants to quickly develop a test case and create documentation for the code.

- A. Use Amazon Q Developer in an integrated development environment (IDE).
- B. Develop an application to use foundation models (FMs).
- C. Upload the code to an online coding assistant.
- D. Research and write test cases. Then, create test cases and add documentation.

Answer: A

Explanation:

* Amazon Q Developer is an AI-powered coding assistant integrated into IDEs (e.g., VS Code, JetBrains). It can:

* Generate unit tests.

* Create documentation.

* Suggest code completions.

* This is the fastest and most effective solution for this scenario.

Reference:

Amazon Q Developer - AWS Documentation

NEW QUESTION # 86

A company is building a mobile app for users who have a visual impairment. The app must be able to hear what users say and provide voice responses.

Which solution will meet these requirements?

- A. Build ML models to search for patterns in numeric data.
- B. Build custom models for image classification and recognition.
- C. Use a deep learning neural network to perform speech recognition.
- D. Use generative AI summarization to generate human-like text.

Answer: C

Explanation:

The mobile app for users with visual impairment needs to hear user speech and provide voice responses, requiring speech-to-text

(speech recognition) and text-to-speech capabilities. Deep learning neural networks are widely used for speech recognition tasks, as they can effectively process and transcribe spoken language.

AWS services like Amazon Transcribe, which uses deep learning for speech recognition, can fulfill this requirement by converting user speech to text, and Amazon Polly can generate voice responses.

Exact Extract from AWS AI Documents:

From the AWS Documentation on Amazon Transcribe:

"Amazon Transcribe uses deep learning neural networks to perform automatic speech recognition (ASR), converting spoken language into text with high accuracy. This is ideal for applications requiring voice input, such as accessibility features for visually impaired users." (Source: Amazon Transcribe Developer Guide, Introduction to Amazon Transcribe) Detailed Explanation:

* Option A: Use a deep learning neural network to perform speech recognition. This is the correct answer. Deep learning neural networks are the foundation of modern speech recognition systems, as used in AWS services like Amazon Transcribe. They enable the app to hear and transcribe user speech, and a service like Amazon Polly can handle voice responses, meeting the requirements.

* Option B: Build ML models to search for patterns in numeric data. This option is irrelevant, as the task involves processing speech (audio data) and generating voice responses, not analyzing numeric data patterns.

* Option C: Use generative AI summarization to generate human-like text. Generative AI summarization focuses on summarizing text, not processing speech or generating voice responses. This option does not address the core requirement of speech recognition.

* Option D: Build custom models for image classification and recognition. Image classification and recognition are unrelated to processing speech or generating voice responses, making this option incorrect for an app focused on audio interaction.

References:

Amazon Transcribe Developer Guide: Introduction to Amazon Transcribe (<https://docs.aws.amazon.com/transcribe/latest/dg/what-is.html>)

Amazon Polly Developer Guide: Text-to-Speech Overview (<https://docs.aws.amazon.com/polly/latest/dg/what-is.html>)

AWS AI Practitioner Learning Path: Module on Speech Recognition and Synthesis

NEW QUESTION # 87

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

Simulates human problem-solving capabilities

Select... ▼
Select...
AI
Deep learning
ML

Applies data-driven learning techniques to make predictions

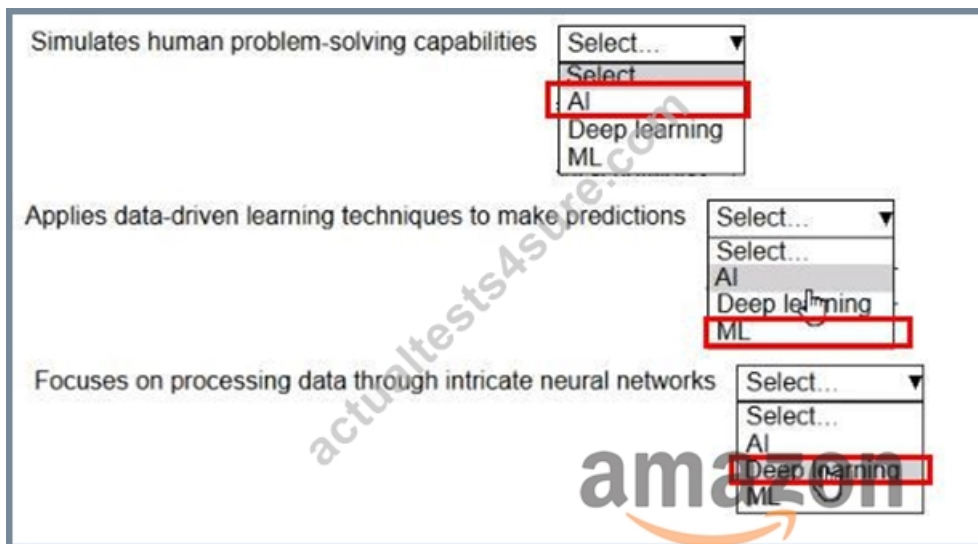
Select... ▼
Select...
AI
Deep learning
ML

Focuses on processing data through intricate neural networks

Select... ▼
Select...
AI
Deep learning
ML

Answer:

Explanation:



NEW QUESTION # 88

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