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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	• 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 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	• 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 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.

Amazon AWS Certified AI Practitioner Sample Questions (Q222-Q227):

NEW QUESTION # 222
A company is building a new generative AI chatbot. The chatbot uses an Amazon Bedrock foundation model (FM) to generate responses. During testing, the company notices that the chatbot is prone to prompt injection attacks.
What can the company do to secure the chatbot with the LEAST implementation effort?

- A. Use chain-of-thought prompting to produce secure responses.
- B. Fine-tune the FM to avoid harmful responses.
- C. Use Amazon Bedrock Guardrails content filters and denied topics.
- D. Change the FM to a more secure FM.

Answer: C

NEW QUESTION # 223
A company wants to use its documents as a knowledge base for a large language model (LLM) in a Retrieval Augmented Generation (RAG) solution.
Which solution will meet these requirements?

- A. Label the document data with metadata.
- B. Create embeddings from document chunks.
- C. Generate one-hot encoding for each document.
- D. Encrypt each document with encryption keys.

Answer: B

Explanation:
Retrieval Augmented Generation (RAG) relies on vector-based semantic search to retrieve relevant information from a knowledge base and provide it as context to a large language model. AWS documentation explains that RAG solutions require documents to be converted into numerical vector representations called embeddings, which capture semantic meaning rather than exact keyword matches.
In this scenario, creating embeddings from document chunks is essential. AWS recommends splitting documents into smaller chunks before generating embeddings to improve retrieval accuracy and relevance.
Chunking ensures that only the most pertinent sections of a document are retrieved and passed to the LLM, reducing noise and improving response quality.
AWS generative AI services, including Amazon Bedrock-based RAG architectures, use embeddings to store document representations in vector databases. During inference, user queries are also converted into embeddings, and similarity search is performed to identify the most relevant document chunks. This process enables the LLM to ground its responses in company-specific knowledge, reducing hallucinations and improving factual accuracy.
The other options do not fulfill RAG requirements. Encrypting documents addresses security but does not enable semantic retrieval.

Labeling metadata can support filtering but does not replace embeddings. One- hot encoding is inefficient for large text corpora and does not capture semantic relationships.
AWS documentation consistently identifies embedding generation as a foundational step in RAG architectures, making this the correct solution.

NEW QUESTION # 224
What are tokens in the context of generative AI models?

- A. Tokens are the mathematical representations of words or concepts used in generative AI models.
- B. Tokens are the basic units of input and output that a generative AI model operates on, representing words, subwords, or other linguistic units.
- C. Tokens are the specific prompts or instructions given to a generative AI model to generate output.
- D. Tokens are the pre-trained weights of a generative AI model that are fine-tuned for specific tasks.

Answer: B

Explanation:
Tokens in generative AI models are the smallest units that the model processes, typically representing words, subwords, or characters. They are essential for the model to understand and generate language, breaking down text into manageable parts for processing.
Option A (Correct): "Tokens are the basic units of input and output that a generative AI model operates on, representing words, subwords, or other linguistic units": This is the correct definition of tokens in the context of generative AI models.
Option B: "Mathematical representations of words" describes embeddings, not tokens.
Option C: "Pre-trained weights of a model" refers to the parameters of a model, not tokens.
Option D: "Prompts or instructions given to a model" refers to the queries or commands provided to a model, not tokens.
AWS AI Practitioner Reference:
Understanding Tokens in NLP: AWS provides detailed explanations of how tokens are used in natural language processing tasks by AI models, such as in Amazon Comprehend and other AWS AI services.

NEW QUESTION # 225
A company uses Amazon SageMaker for its ML pipeline in a production environment. The company has large input data sizes up to 1 GB and processing times up to 1 hour. The company needs near real-time latency.
Which SageMaker inference option meets these requirements?

- A. Batch transform
- B. Asynchronous inference
- C. Real-time inference
- D. Serverless inference

Answer: C

Explanation:
Real-time inference is designed to provide immediate, low-latency predictions, which is necessary when the company requires near real-time latency for its ML models. This option is optimal when there is a need for fast responses, even with large input data sizes and substantial processing times.
* Option A (Correct): "Real-time inference": This is the correct answer because it supports low- latency requirements, which are essential for real-time applications where quick response times are needed.
* Option B: "Serverless inference" is incorrect because it is more suited for intermittent, small-scale inference workloads, not for continuous, large-scale, low-latency needs.
* Option C: "Asynchronous inference" is incorrect because it is used for workloads that do not require immediate responses.
* Option D: "Batch transform" is incorrect as it is intended for offline, large-batch processing where immediate response is not necessary.
AWS AI Practitioner References:
* Amazon SageMaker Inference Options: AWS documentation describes real-time inference as the best solution for applications that require immediate prediction results with low latency.

NEW QUESTION # 226

A publishing company built a Retrieval Augmented Generation (RAG) based solution to give its users the ability to interact with published content. New content is published daily. The company wants to provide a near real-time experience to users.
Which steps in the RAG pipeline should the company implement by using offline batch processing to meet these requirements? (Select TWO.)

- A. Creation of the search index
- B. Generation of content embeddings
- C. Retrieval of relevant content
- D. Response generation for the user
- E. Generation of embeddings for user queries

Answer: A,B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
In a RAG (Retrieval Augmented Generation) architecture, there are steps that can be optimized using offline batch processing, particularly for operations that do not require real-time updates:
A . Generation of content embeddings:
When new content is published, it can be processed in batches to generate embeddings (vector representations) offline. These embeddings are then used at query time for similarity search. As new documents come in daily, batch processing is ideal for generating embeddings for all new content together.
"Content/document embeddings are typically generated offline, as this operation can be computationally expensive and does not need to happen in real-time." (Reference: AWS GenAI RAG Blog, Amazon Bedrock RAG Pattern)
"Content/document embeddings are typically generated offline, as this operation can be computationally expensive and does not need to happen in real-time." (Reference: AWS GenAI RAG Blog, Amazon Bedrock RAG Pattern) C . Creation of the search index:
After generating the content embeddings, these are indexed in a vector database or search service. This indexing is also typically performed in batch as part of the offline pipeline.
"Building or updating the vector index is often performed as a batch operation, reflecting the latest state of the content repository." (Reference: AWS RAG Pattern Whitepaper)
"Building or updating the vector index is often performed as a batch operation, reflecting the latest state of the content repository." (Reference: AWS RAG Pattern Whitepaper) B, D, and E are real-time steps. Embeddings for user queries (B), retrieval of relevant content (D), and response generation (E) must be processed in real-time to provide an interactive experience.
Reference:
Retrieval Augmented Generation (RAG) on AWS
Amazon Bedrock RAG Documentation

NEW QUESTION # 227
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