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Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 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	• 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	• 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.

Amazon AWS Certified AI Practitioner Sample Questions (Q49-Q54):

NEW QUESTION # 49
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 # 50
An online learning company with large volumes of education materials wants to use enterprise search.

- A. Amazon Kendra
- B. Amazon Textract
- C. Amazon Personalize
- D. Amazon Comprehend

Answer: A

Explanation:
The correct answer is C - Amazon Kendra, AWS's enterprise search service designed for organizations with large, diverse document repositories. Kendra uses machine learning and natural language understanding (NLU) to provide semantic search, meaning it retrieves results based on meaning rather than keyword matching. According to AWS documentation, Kendra is ideal for educational, enterprise, and knowledge- management scenarios where users need fast, accurate retrieval across PDFs, HTML,

Office documents, FAQs, and multimedia transcripts. Kendra connectors can index content from S3, SharePoint, LMS platforms, and internal databases, making it perfect for large volumes of training materials. Amazon Comprehend (A) is for NLP tasks like entity extraction, not enterprise search. Amazon Textract (B) extracts text from PDFs and scanned materials but does not provide search capabilities. Amazon Personalize (D) is for personalized recommendations, not document retrieval. Kendra is purpose-built for enterprise search and aligns directly with the company's needs.
Referenced AWS Documentation:
* Amazon Kendra Developer Guide - Enterprise Search
* AWS ML Specialty Guide - Intelligent Search Systems

NEW QUESTION # 51

A company is building an ML model to analyze archived dat
a. The company must perform inference on large datasets that are multiple GBs in size. The company does not need to access the model predictions immediately.
Which Amazon SageMaker inference option will meet these requirements?

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

Answer: D

Explanation:
I'll continue with more questions shortly. Stay tuned!

NEW QUESTION # 52

Which option is a benefit of using Amazon SageMaker Model Cards to document AI models?

- A. Reducing the overall computational requirements of a model.
- B. Providing a visually appealing summary of a model's capabilities.
- C. Standardizing information about a model's purpose, performance, and limitations.
- D. Physically storing models for archival purposes.

Answer: C

Explanation:
Amazon SageMaker Model Cards provide a standardized way to document important details about an AI model, such as its purpose, performance, intended usage, and known limitations. This enables transparency and compliance while fostering better communication between stakeholders. It does not store models physically or optimize computational requirements. Reference: AWS SageMaker Model Cards Documentation.

NEW QUESTION # 53

A loan company is building a generative AI-based solution to offer new applicants discounts based on specific business criteria. The company wants to build and use an AI model responsibly to minimize bias that could negatively affect some customers.
Which actions should the company take to meet these requirements? (Select TWO.)

- A. Detect imbalances or disparities in the data.
- B. Ensure that the model's inference time is within the accepted limits.
- C. Evaluate the model's behavior so that the company can provide transparency to stakeholders.
- D. Use the Recall-Oriented Understudy for Gisting Evaluation (ROUGE) technique to ensure that the model is 100% accurate.
- E. Ensure that the model runs frequently.

Answer: A,C

Explanation:
To build and use an AI model responsibly, especially in sensitive applications like loan approvals, it's crucial to address potential biases and ensure transparency:

* Detect imbalances or disparities in the data (Option A): Analyzing the training data for imbalances or disparities is essential. Imbalanced data can lead to models that are biased towards the majority class, potentially disadvantaging certain groups. By identifying and mitigating these imbalances, the company can reduce the risk of biased predictions.

* Evaluate the model's behavior to provide transparency to stakeholders (Option C): Regularly assessing the model's outputs and decision-making processes allows the company to understand how decisions are made. This evaluation fosters transparency, enabling the company to explain model behavior to stakeholders and ensure that the model operates as intended without unintended biases.

Options B, D, and E, while relevant to model performance and evaluation, do not directly address the responsible use of AI concerning bias and transparency.

NEW QUESTION # 54

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