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Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 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	• 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 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	• 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.

Amazon AWS Certified AI Practitioner Sample Questions (Q123-Q128):

NEW QUESTION # 123
A company wants to develop an AI assistant for employees to query internal data.
Which AWS service will meet this requirement?

- A. Amazon Textract
- B. Amazon Rekognition
- C. Amazon Q Business
- D. Amazon Lex

Answer: C

Explanation:
Comprehensive and Detailed Explanation From Exact AWS AI documents:
Amazon Q Business is a managed AI assistant designed to:
* Allow employees to query internal enterprise data
* Provide conversational answers
* Respect enterprise security and access controls
AWS guidance positions Amazon Q Business as the solution for internal knowledge discovery and enterprise AI assistance.
Why the other options are incorrect:
* Rekognition (A) analyzes images.
* Textract (B) extracts text from documents.
* Lex (C) builds conversational interfaces but does not provide enterprise data integration out of the box.
AWS AI document references:
* Amazon Q Business Overview
* Enterprise AI Assistants on AWS
* Secure Access to Internal Data with AI

NEW QUESTION # 124
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 the new text passage with a few examples of unrelated tasks, such as text summarization or question answering.
- B. Provide a detailed explanation of sentiment analysis and how LLMs work in the prompt.
- C. Provide examples of text passages with corresponding positive or negative labels in the prompt followed by the new text passage to be classified.
- D. Provide the new text passage to be classified without any additional context or examples.

Answer: C

NEW QUESTION # 125

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

Answer: B,E

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 # 126

A company wants to use generative AI to increase developer productivity and software development. The company wants to use Amazon Q Developer.
What can Amazon Q Developer do to help the company meet these requirements?

- A. Enable voice commands for coding and providing natural language search.
- B. Run an application without provisioning or managing servers.
- C. Convert audio files to text documents by using ML models.
- D. Create software snippets, reference tracking, and open-source license tracking.

Answer: D

Explanation:
Amazon Q Developer is a tool designed to assist developers in increasing productivity by generating code snippets, managing reference tracking, and handling open-source license tracking. These features help developers by automating parts of the software development process.
* Option A (Correct): "Create software snippets, reference tracking, and open-source license tracking": This is the correct answer because these are key features that help developers streamline and automate tasks, thus improving productivity.
* Option B: "Run an application without provisioning or managing servers" is incorrect as it refers to AWS Lambda or AWS Fargate, not Amazon Q Developer.
* Option C: "Enable voice commands for coding and providing natural language search" is incorrect because this is not a function of Amazon Q Developer.

* Option D: "Convert audio files to text documents by using ML models" is incorrect as this refers to Amazon Transcribe, not Amazon Q Developer.
AWS AI Practitioner References:
* Amazon Q Developer Features: AWS documentation outlines how Amazon Q Developer supports developers by offering features that reduce manual effort and improve efficiency.

NEW QUESTION # 127

A company that uses multiple ML models wants to identify changes in original model quality so that the company can resolve any issues.
Which AWS service or feature meets these requirements?

- A. Amazon SageMaker Model Monitor
- B. Amazon SageMaker Data Wrangler
- C. Amazon SageMaker HyperPod
- D. Amazon SageMaker JumpStart

Answer: A

Explanation:
Amazon SageMaker Model Monitor is specifically designed to automatically detect and alert on changes in model quality, such as data drift, prediction drift, or other anomalies in model performance once deployed.
* D is correct:
"Amazon SageMaker Model Monitor continuously monitors the quality of machine learning models in production. It automatically detects concept drift, data drift, and other quality issues, enabling teams to take corrective actions." (Reference: Amazon SageMaker Model Monitor Documentation, AWS Certified AI Practitioner Study Guide)
* A (JumpStart) provides prebuilt solutions and models, not monitoring.
* B (HyperPod) is for large-scale training, not model monitoring.
* C (Data Wrangler) is for data preparation, not ongoing model quality monitoring.

NEW QUESTION # 128

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