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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	• 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 3	• 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 4	• 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	• 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.

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Amazon AWS Certified AI Practitioner Sample Questions (Q21-Q26):

NEW QUESTION # 21
A company wants to develop a large language model (LLM) application by using Amazon Bedrock and customer data that is uploaded to Amazon S3. The company's security policy states that each team can access data for only the team's own customers. Which solution will meet these requirements?

- A. Create an Amazon Bedrock custom service role for each team that has access to only the team's customer data.
- B. Create a custom service role that has Amazon S3 access. Ask teams to specify the customer name on each Amazon Bedrock request.
- C. Create one Amazon Bedrock role that has full Amazon S3 access. Create IAM roles for each team that have access to only each team's customer folders.
- D. Redact personal data in Amazon S3. Update the S3 bucket policy to allow team access to customer data.

Answer: A

Explanation:
To comply with the company's security policy, which restricts each team to access data for only their own customers, creating an Amazon Bedrock custom service role for each team is the correct solution.
* Custom Service Role Per Team:
* A custom service role for each team ensures that the access control is granular, allowing only specific teams to access their own customer data in Amazon S3.
* This setup aligns with the principle of least privilege, ensuring teams can only interact with data they are authorized to access.
* Why Option A is Correct:
* Access Control: Allows precise access permissions for each team's data.
* Security Compliance: Directly meets the company's security policy requirements by ensuring data segregation.
* Why Other Options are Incorrect:
* B. Custom service role with customer name specification: This approach is impractical as it relies on manual input, which is prone to errors and does not inherently enforce data access controls.
* C. Redacting personal data and updating S3 bucket policy: Redaction does not solve the requirement for team-specific access, and updating bucket policies is less granular than creating roles.
* D. One Bedrock role with full S3 access and IAM roles for teams: This setup does not meet the least privilege principle, as having a single role with full access is contrary to the company's security policy.
Thus, A is the correct answer to meet the company's security requirements.

NEW QUESTION # 22
An airline company wants to use a generative AI model to convert a flight booking system from one coding language into another coding language. The company must select a model for this task.
Which criteria should the company use to select the correct generative AI model for this task?

- A. Ability to generate creative content
- B. Code generation speed and error handling capabilities
- C. Syntax, semantic understanding, and code optimization capabilities
- D. Model size and resource requirements

Answer: C

Explanation:
The correct answer is A because code translation tasks require a model with deep understanding of syntax, semantic meaning, and the ability to maintain functional equivalence in different programming languages. Some foundation models offered via Amazon Bedrock (like CodeWhisperer or Meta's Code LLMs) are designed with these capabilities in mind.
From AWS documentation:

"Generative AI models used for code generation and translation must understand programming semantics and syntax to generate accurate and secure code. These models are trained to recognize language-specific patterns and preserve logic when converting between languages." Explanation of other options:

B . Speed and error handling are secondary to correctness and comprehension in code translation tasks.

C . Creative content generation is not relevant for deterministic tasks like source code translation.

D . Model size may affect performance or latency but is not a primary selection criterion for translation accuracy.

Referenced AWS AI/ML Documents and Study Guides:

Amazon Bedrock Model Selection Guide - Code Generation and Translation

AWS Developer Tools - CodeWhisperer Capabilities

AWS ML Specialty Study Guide - LLM Use Cases in Software Engineering

NEW QUESTION # 23

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. Create software snippets, reference tracking, and open-source license tracking.
- C. Run an application without provisioning or managing servers.
- D. Convert audio files to text documents by using ML models.

Answer: B

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 Reference:

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 # 24

A law firm wants to build an AI application by using large language models (LLMs). The application will read legal documents and extract key points from the documents.

Which solution meets these requirements?

- A. Develop a summarization chatbot.
- B. Create a recommendation engine.
- C. Develop a multi-language translation system.
- D. Build an automatic named entity recognition system.

Answer: A

Explanation:

A summarization chatbot is ideal for extracting key points from legal documents. Large language models (LLMs) can be used to summarize complex texts, such as legal documents, making them more accessible and understandable.

* Option C (Correct): "Develop a summarization chatbot": This is the correct answer because a summarization chatbot uses LLMs to condense and extract key information from text, which is precisely the requirement for reading and summarizing legal documents.

* Option A: "Build an automatic named entity recognition system" is incorrect because it focuses on identifying specific entities, not summarizing documents.

* Option B: "Create a recommendation engine" is incorrect as it is used to suggest products or content, not summarize text.

* Option D: "Develop a multi-language translation system" is incorrect because translation is unrelated to summarizing text.
AWS AI Practitioner References:
* Using LLMs for Text Summarization on AWS: AWS supports developing summarization tools using its AI services, including Amazon Bedrock.

NEW QUESTION # 25
Which term refers to the Instructions given to foundation models (FMs) so that the FMs provide a more accurate response to a question?

- A. Translation
- B. Prompt
- C. Direction
- D. Dialog

Answer: B

NEW QUESTION # 26
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