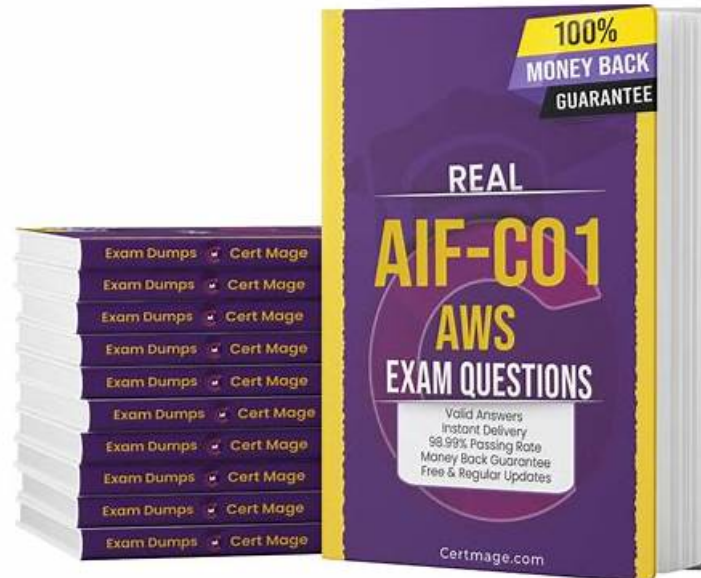


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Amazon AIF-C01 Exam Syllabus Topics:

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	• 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	• 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	• 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.

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Amazon AWS Certified AI Practitioner Sample Questions (Q134-Q139):

NEW QUESTION # 134

A financial company has offices in different countries worldwide. The company requires that all API calls between generative AI applications and foundation models (FM) must not travel across the public internet.

Which AWS service should the company use?

- A. Amazon CloudFront
- B. Amazon Q
- C. AWS CloudTrail
- D. AWS PrivateLink

Answer: D

Explanation:

AWS PrivateLink provides private connectivity between VPCs, AWS services, and on-premises networks, ensuring traffic does not traverse the public internet.

A is correct:

"AWS PrivateLink provides private connectivity to services across VPCs, keeping API traffic off the public internet." (Reference: AWS PrivateLink Overview)

"AWS PrivateLink provides private connectivity to services across VPCs, keeping API traffic off the public internet." (Reference: AWS PrivateLink Overview) B (Amazon Q) is a generative AI assistant, not a network security/control tool.

C (CloudFront) is a CDN, not for private API calls.

D (CloudTrail) is for logging and monitoring, not secure connectivity.

NEW QUESTION # 135

A company needs to use Amazon SageMaker AI for model training and inference. The company must comply with regulatory requirements to run SageMaker jobs in an isolated environment without internet access.

Which solution will meet these requirements?

- A. Encrypt the data at rest by using encryption for SageMaker geospatial capabilities.
- B. Run SageMaker training and inference by using network isolation.
- C. Associate appropriate AWS Identity and Access Management (IAM) roles with the SageMaker jobs.
- D. Run SageMaker training and inference by using SageMaker Experiments.

Answer: B

Explanation:

Network isolation is a key security feature for SageMaker. It ensures that training and inference jobs run in a VPC and are not

accessible from the internet. Per the official SageMaker documentation:

"When you enable network isolation, your model can't make any outbound network calls. This is useful for security and regulatory compliance when working with sensitive data."

NEW QUESTION # 136

A large retailer receives thousands of customer support inquiries about products every day. The customer support inquiries need to be processed and responded to quickly. The company wants to implement Agents for Amazon Bedrock.

What are the key benefits of using Amazon Bedrock agents that could help this retailer?

- A. Generation of custom foundation models (FMs) to predict customer needs
- B. Automatically calling multiple foundation models (FMs) and consolidating the results
- C. Selecting the foundation model (FM) based on predefined criteria and metrics
- **D. Automation of repetitive tasks and orchestration of complex workflows**

Answer: D

Explanation:

Amazon Bedrock Agents provide the capability to automate repetitive tasks and orchestrate complex workflows using generative AI models. This is particularly beneficial for customer support inquiries, where quick and efficient processing is crucial.

Option B (Correct): "Automation of repetitive tasks and orchestration of complex workflows": This is the correct answer because Bedrock Agents can automate common customer service tasks and streamline complex processes, improving response times and efficiency.

Option A: "Generation of custom foundation models (FMs) to predict customer needs" is incorrect as Bedrock agents do not create custom models.

Option C: "Automatically calling multiple foundation models (FMs) and consolidating the results" is incorrect because Bedrock agents focus on task automation rather than combining model outputs.

Option D: "Selecting the foundation model (FM) based on predefined criteria and metrics" is incorrect as Bedrock agents are not designed for selecting models.

AWS AI Practitioner Reference:

Amazon Bedrock Documentation: AWS explains that Bedrock Agents automate tasks and manage complex workflows, making them ideal for customer support automation.

NEW QUESTION # 137

A bank has fine-tuned a large language model (LLM) to expedite the loan approval process. During an external audit of the model, the company discovered that the model was approving loans at a faster pace for a specific demographic than for other demographics.

How should the bank fix this issue MOST cost-effectively?

- A. Pre-train a new LLM with more diverse training data.
- **B. Include more diverse training data. Fine-tune the model again by using the new data.**
- C. Use AWS Trusted Advisor checks to eliminate bias.
- D. Use Retrieval Augmented Generation (RAG) with the fine-tuned model.

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The best practice for mitigating bias in AI/ML models, according to AWS and responsible AI frameworks, is to ensure that the training data is representative and diverse. If a model demonstrates bias (such as favoring a particular demographic), the recommended, cost-effective approach is to collect additional data from underrepresented groups and retrain (fine-tune) the model with the improved dataset.

* A. Include more diverse training data. Fine-tune the model again by using the new data:

"The most effective method to reduce model bias is to curate and include diverse, representative training data, then retrain or fine-tune the model." (Reference: AWS Responsible AI, SageMaker Clarify Bias Mitigation)

* B (RAG) is unrelated to model fairness or bias mitigation; it's for grounding LLMs with external knowledge.

* C (AWS Trusted Advisor) is for AWS resource optimization/security-not for ML model bias detection or mitigation.

* D (Pre-train a new LLM) would be extremely costly and is unnecessary; fine-tuning with better data is much more efficient.

References:

Responsible AI on AWS

NEW QUESTION # 138

A company is building a customer service chatbot. The company wants the chatbot to improve its responses by learning from past interactions and online resources.

Which AI learning strategy provides this self-improvement capability?

- **A. Reinforcement learning with rewards for positive customer feedback**
- B. Unsupervised learning to find clusters of similar customer inquiries
- C. Supervised learning with a manually curated dataset of good responses and bad responses
- D. Supervised learning with a continuously updated FAQ database

Answer: A

Explanation:

Reinforcement learning allows a model to learn and improve over time based on feedback from its environment. In this case, the chatbot can improve its responses by being rewarded for positive customer feedback, which aligns well with the goal of self-improvement based on past interactions and new information.

* Option B (Correct): "Reinforcement learning with rewards for positive customer feedback". This is the correct answer as reinforcement learning enables the chatbot to learn from feedback and adapt its behavior accordingly, providing self-improvement capabilities.

* Option A: "Supervised learning with a manually curated dataset" is incorrect because it does not support continuous learning from new interactions.

* Option C: "Unsupervised learning to find clusters of similar customer inquiries" is incorrect because unsupervised learning does not provide a mechanism for improving responses based on feedback.

* Option D: "Supervised learning with a continuously updated FAQ database" is incorrect because it still relies on manually curated data rather than self-improvement from feedback.

AWS AI Practitioner References:

* Reinforcement Learning on AWS: AWS provides reinforcement learning frameworks that can be used to train models to improve their performance based on feedback.

NEW QUESTION # 139

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