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Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">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 2	<ul style="list-style-type: none">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	<ul style="list-style-type: none">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	<ul style="list-style-type: none">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 5	<ul style="list-style-type: none">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.

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Amazon AWS Certified AI Practitioner Sample Questions (Q322-Q327):

NEW QUESTION # 322

A company wants to create an application by using Amazon Bedrock. The company has a limited budget and prefers flexibility without long-term commitment.

Which Amazon Bedrock pricing model meets these requirements?

- A. Spot Instance
- B. Provisioned Throughput
- **C. On-Demand**
- D. Model customization

Answer: C

Explanation:

Amazon Bedrock offers an on-demand pricing model that provides flexibility without long-term commitments. This model allows companies to pay only for the resources they use, which is ideal for a limited budget and offers flexibility.

* Option A (Correct): "On-Demand": This is the correct answer because on-demand pricing allows the company to use Amazon Bedrock without any long-term commitments and to manage costs according to their budget.

* Option B: "Model customization" is a feature, not a pricing model.

* Option C: "Provisioned Throughput" involves reserving capacity ahead of time, which might not offer the desired flexibility and could lead to higher costs if the capacity is not fully used.

* Option D: "Spot Instance" is a pricing model for EC2 instances and does not apply to Amazon Bedrock.

AWS AI Practitioner References:

* AWS Pricing Models for Flexibility: On-demand pricing is a key AWS model for services that require flexibility and no long-term commitment, ensuring cost-effectiveness for projects with variable usage patterns.

NEW QUESTION # 323

An AI practitioner has trained a model on a training dataset. The model performs well on the training data.

However, the model does not perform well on evaluation data. What is the MOST likely cause of this issue?

- A. The model is underfit.
- B. The model requires prompt engineering.
- **C. The model is overfit.**
- D. The model is biased.

Answer: C

Explanation:

When a model performs well on training data but poorly on evaluation/test data, it indicates overfitting.

Overfitting: The model memorizes the training data patterns instead of generalizing.

Underfitting (A) means the model performs poorly on both training and test data.

Bias (C) refers to systemic errors in predictions, not this training/test mismatch.

Prompt engineering (B) applies to generative AI, not general ML training models.

Reference:

AWS ML Glossary - Overfitting and Underfitting

NEW QUESTION # 324

A company wants to improve multiple ML models.

Select the correct technique from the following list of use cases. Each technique should be selected one time or not at all. (Select THREE.)

Few-shot learning

Fine-tuning

Retrieval Augmented Generation (RAG)

Zero-shot learning

Answer:

Explanation:

NEW QUESTION # 325

A food service company wants to develop an ML model to help decrease daily food waste and increase sales revenue. The company needs to continuously improve the model's accuracy.

Which solution meets these requirements?

- A. Use Amazon Rekognition to optimize the model.
- **B. Use Amazon SageMaker AI and iterate with the most recent data.**
- C. Use Amazon Personalize and iterate with historical data.
- D. Use Amazon CloudWatch to analyze customer orders.

Answer: B

Explanation:

Amazon SageMaker is AWS's fully managed ML service that supports retraining and deploying models with new, recent data for continuous improvement. This directly meets the requirement to iterate and continuously improve model accuracy.

A is correct:

"Amazon SageMaker enables teams to retrain models using the most recent data, ensuring ongoing improvement in model accuracy." (Reference: Amazon SageMaker Overview)

"Amazon SageMaker enables teams to retrain models using the most recent data, ensuring ongoing improvement in model accuracy."

(Reference: Amazon SageMaker Overview) B (Amazon Personalize) is for recommendations, not general ML or waste reduction.

C (CloudWatch) is for monitoring, not ML training or deployment.

D (Rekognition) is for image/video analysis.

NEW QUESTION # 326

What does an F1 score measure in the context of foundation model (FM) performance?

- **A. Model precision and recall.**
- B. Financial cost of operating the model.
- C. Energy efficiency of the model's computations.
- D. Model speed in generating responses.

Answer: A

Explanation:

The F1 score is the harmonic mean of precision and recall, making it a balanced metric for evaluating model performance when there is an imbalance between false positives and false negatives. Speed, cost, and energy efficiency are unrelated to the F1 score.

Reference: AWS Foundation Models Guide.

NEW QUESTION # 327

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