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The Amazon AIF-C01 certification verifies that you have a basic understanding of AWS Certified AI Practitioner concepts and virtualization. Success in the AIF-C01 exam of the Amazon AIF-C01 certificate also proves your knowledge of basic troubleshooting concepts and data center technology. When you earn the AIF-C01 Certification you will get reliable exam guide materials.

Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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.
Topic 3	<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 4	<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 5	<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.

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Amazon AWS Certified AI Practitioner Sample Questions (Q169-Q174):

NEW QUESTION # 169

What are tokens in the context of generative AI models?

- A. Tokens are the pre-trained weights of a generative AI model that are fine-tuned for specific tasks.
- B. Tokens are the mathematical representations of words or concepts used in generative AI models.
- C. Tokens are the specific prompts or instructions given to a generative AI model to generate output.
- **D. Tokens are the basic units of input and output that a generative AI model operates on, representing words, subwords, or other linguistic units.**

Answer: D

NEW QUESTION # 170

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

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

Answer: B

Explanation:

The F1 score is a metric used to evaluate the performance of a classification model by considering both precision and recall. Precision measures the accuracy of positive predictions (i.e., the proportion of true positive predictions among all positive predictions made by the model), while recall measures the model's ability to identify all relevant positive instances (i.e., the proportion of true positive predictions among all actual positive instances). The F1 score is the harmonic mean of precision and recall, providing a single metric that balances both concerns. This is particularly useful when dealing with imbalanced datasets or when the cost of false positives and false negatives is significant. Options B, C, and D pertain to other aspects of model performance but are not related to the F1 score.

Reference: AWS Certified AI Practitioner Exam Guide

NEW QUESTION # 171

A company wants more customized responses to its generative AI models' prompts.

Select the correct customization methodology from the following list for each use case. Each use case should be selected one time.

(Select THREE.)

- * Continued pre-training
- * Data augmentation
- * Model fine-tuning

Answer:

Explanation:

The models must be taught a new domain-specific task

A limited amount of labeled data is available and more data is needed

Only unlabeled data is available

Model fine-tuning adapts a pre-trained model to a specific domain or task using labeled data. This is the preferred approach when you want highly customized behavior for a particular application or subject area.

(Reference: Amazon Bedrock Fine-Tuning)

Data augmentation is used to artificially increase the size of a labeled dataset, usually by transforming or generating variations of the original data. This helps improve model generalization when labeled data is limited.

(Reference: AWS Data Preparation Techniques, AWS AI Practitioner Guide) Continued pre-training (also called domain-adaptive pre-training) further trains a foundation model on large amounts of unlabeled data from a specific domain, improving the model's language understanding or generation for that domain.

(Reference: Amazon Bedrock Customization Options)

NEW QUESTION # 172

A company uses Amazon Comprehend to analyze customer feedback. A customer has several unique trained models. The company uses Comprehend to assign each model an endpoint. The company wants to automate a report on each endpoint that is not used for more than 15 days.

- A. AWS CloudTrail
- B. AWS Trusted Advisor
- C. Amazon CloudWatch
- D. AWS Config

Answer: C

Explanation:

The correct answer is B because Amazon CloudWatch provides monitoring capabilities that include tracking usage metrics for Amazon Comprehend endpoints, such as invocation counts. You can configure CloudWatch to collect these metrics and create custom dashboards or alarms to report when an endpoint has zero usage over a period (e.g., 15 days).

From AWS documentation:

"Amazon CloudWatch enables you to collect and track metrics for Comprehend endpoints, create alarms, and automatically react to changes in your AWS resources." This allows automated reporting and alerting for underused or idle endpoints.

Explanation of other options:

A . AWS Trusted Advisor focuses on general AWS resource optimization, security, and limits but does not track endpoint usage.

C . AWS CloudTrail tracks API calls but does not provide time-based monitoring or usage analysis over time.

D . AWS Config is used to track configuration changes and compliance, not endpoint usage metrics.

Referenced AWS AI/ML Documents and Study Guides:

Amazon CloudWatch Metrics for Amazon Comprehend

AWS Certified Machine Learning Specialty Guide - Monitoring and Logging Section AWS Cloud Operations Guide - Resource Utilization Monitoring

NEW QUESTION # 173

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 requires prompt engineering.
- B. The model is underfit.

- 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 # 174

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