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Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details

Topic 1	<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 2	<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 3	<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 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"> • 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.

Amazon AWS Certified AI Practitioner Sample Questions (Q192-Q197):

NEW QUESTION # 192

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

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

Answer: C

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 # 193

An AI practitioner is building a model to generate images of humans in various professions. The AI practitioner discovered that the input data is biased and that specific attributes affect the image generation and create bias in the model.

Which technique will solve the problem?

- A. Retrieval Augmented Generation (RAG)
- B. Watermark detection for images
- **C. Data augmentation for imbalanced classes**
- D. Model monitoring for class distribution

Answer: C

NEW QUESTION # 194

A company needs an automated solution to group its customers into multiple categories. The company does not want to manually define the categories.

Which ML technique should the company use?

- A. Clustering
- B. Logistic regression
- C. Linear regression
- D. Classification

Answer: A

NEW QUESTION # 195

Which option is a benefit of using Amazon SageMaker Model Cards to document AI models?

- A. Standardizing information about a model's purpose, performance, and limitations.
- B. Physically storing models for archival purposes.
- C. Reducing the overall computational requirements of a model.
- D. Providing a visually appealing summary of a model's capabilities.

Answer: A

Explanation:

Amazon SageMaker Model Cards provide a standardized way to document important details about an AI model, such as its purpose, performance, intended usage, and known limitations. This enables transparency and compliance while fostering better communication between stakeholders. It does not store models physically or optimize computational requirements. Reference: AWS SageMaker Model Cards Documentation.

NEW QUESTION # 196

A company is developing a new model to predict the prices of specific items. The model performed well on the training dataset. When the company deployed the model to production, the model's performance decreased significantly.

What should the company do to mitigate this problem?

- A. Add hyperparameters to the model.
- B. Increase the model training time.
- C. Reduce the volume of data that is used in training.
- D. Increase the volume of data that is used in training.

Answer: D

Explanation:

When a model performs well on the training data but poorly in production, it is often due to overfitting.

Overfitting occurs when a model learns patterns and noise specific to the training data, which does not generalize well to new, unseen data in production. Increasing the volume of data used in training can help mitigate this problem by providing a more diverse and representative dataset, which helps the model generalize better.

* Option C (Correct): "Increase the volume of data that is used in training": Increasing the data volume can help the model learn more generalized patterns rather than specific features of the training dataset, reducing overfitting and improving performance in production.

* Option A: "Reduce the volume of data that is used in training" is incorrect, as reducing data volume would likely worsen the overfitting problem.

* Option B: "Add hyperparameters to the model" is incorrect because adding hyperparameters alone does not address the issue of data diversity or model generalization.

* Option D: "Increase the model training time" is incorrect because simply increasing training time does not prevent overfitting; the model needs more diverse data.

AWS AI Practitioner References:

* Best Practices for Model Training on AWS: AWS recommends using a larger and more diverse training dataset to improve a model's generalization capability and reduce the risk of overfitting.

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