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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">• 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">• 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 5	<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.
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Amazon AWS Certified AI Practitioner Sample Questions (Q240-Q245):

NEW QUESTION # 240

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

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)

* 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 # 241

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. Convert audio files to text documents by using ML models.
- **B. Create software snippets, reference tracking, and open-source license tracking.**
- C. Run an application without provisioning or managing servers.
- D. Enable voice commands for coding and providing natural language search.

Answer: B

NEW QUESTION # 242

Which type of AI model makes numeric predictions?

- A. Multi-modal
- B. Diffusion

- C. Transformer
- D. Regression

Answer: D

Explanation:

The regression model is a fundamental type of supervised machine learning algorithm that is specifically designed to make numeric predictions. In regression tasks, the goal is to predict a continuous numerical value based on input features. This contrasts with classification, which predicts discrete labels.

* According to AWS documentation:

"Regression models are used for predicting a continuous value. Examples include predicting house prices, stock market prices, or customer credit limits." (Reference: AWS Machine Learning Foundations: Regression, AWS AI Practitioner Study Guide)

* Option A (Diffusion) relates to generative models and is not primarily used for numeric prediction.

* Option C (Transformer) is a neural network architecture, often used for sequence modeling tasks (e.g., NLP).

* Option D (Multi-modal) describes a model handling multiple data types, not specifically numeric prediction.

References:

AWS AI/ML Learning Path - Regression Models

AWS Certified AI Practitioner Study Guide (Pearson)

NEW QUESTION # 243

A company wants to use a large language model (LLM) on Amazon Bedrock for sentiment analysis. The company needs the LLM to produce more consistent responses to the same input prompt.

Which adjustment to an inference parameter should the company make to meet these requirements?

- A. Increase the temperature value
- B. Decrease the length of output tokens
- C. Decrease the temperature value
- D. Increase the maximum generation length

Answer: C

Explanation:

The temperature parameter in a large language model (LLM) controls the randomness of the model's output. A lower temperature value makes the output more deterministic and consistent, meaning that the model is less likely to produce different results for the same input prompt.

Option A (Correct): "Decrease the temperature value": This is the correct answer because lowering the temperature reduces the randomness of the responses, leading to more consistent outputs for the same input.

Option B: "Increase the temperature value" is incorrect because it would make the output more random and less consistent.

Option C: "Decrease the length of output tokens" is incorrect as it does not directly affect the consistency of the responses.

Option D: "Increase the maximum generation length" is incorrect because this adjustment affects the output length, not the consistency of the model's responses.

AWS AI Practitioner Reference:

Understanding Temperature in Generative AI Models: AWS documentation explains that adjusting the temperature parameter affects the model's output randomness, with lower values providing more consistent outputs.

NEW QUESTION # 244

A media company wants to analyze viewer behavior and demographics to recommend personalized content. The company wants to deploy a customized ML model in its production environment. The company also wants to observe if the model quality drifts over time.

Which AWS service or feature meets these requirements?

- A. Amazon SageMaker Model Monitor
- B. Amazon Rekognition
- C. Amazon SageMaker Clarify
- D. Amazon Comprehend

Answer: A

Explanation:

A: Amazon Rekognition: This service is designed for image and video analysis, such as object detection, facial recognition, and text extraction. It is not suited for deploying custom ML models or monitoring model quality drift.

B: Amazon SageMaker Clarify: This feature helps detect bias in ML models and explains model predictions. While it addresses fairness and interpretability, it does not specifically focus on monitoring model quality drift over time in production.

C: Amazon Comprehend: This is a natural language processing (NLP) service for extracting insights from text, such as sentiment analysis or entity recognition. It does not support deploying custom ML models or monitoring model performance drift.

D: Amazon SageMaker Model Monitor: This feature is part of Amazon SageMaker and is specifically designed to monitor ML models in production. It tracks metrics such as data drift, model drift, and performance degradation over time, alerting users when issues are detected.

Exact Extract Reference: According to the AWS documentation on Amazon SageMaker, "Amazon SageMaker Model Monitor allows you to detect and remediate data and model quality issues in production. It continuously monitors the performance of deployed models, capturing data and model predictions to detect deviations from expected behavior, such as data drift or model performance degradation." (Source: AWS SageMaker Documentation - Model Monitoring, <https://docs.aws.amazon.com/sagemaker/latest/dg/model-monitor.html>).

This directly aligns with the requirement to observe model quality drift, making Amazon SageMaker Model Monitor the correct choice.

Explanation:

The requirement is to deploy a customized machine learning (ML) model and monitor its quality for potential drift over time in a production environment. Let's evaluate each option:

Production Reference:

AWS SageMaker Documentation: Model Monitoring (<https://docs.aws.amazon.com/sagemaker/latest/dg/model-monitor.html>)
AWS AI Practitioner Study Guide (conceptual alignment with monitoring deployed ML models)

NEW QUESTION # 245

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