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>> Best AIF-C01 Practice <<

Hot AIF-C01 Questions | New AIF-C01 Test Question

Most candidates who register for AWS Certified AI Practitioner (AIF-C01) certification lack the right resources to help them achieve it. As a result, they face failure, which causes them to waste time and money, and sometimes even lose motivation to repeat their Amazon AIF-C01 exam. Prep4away will solve such problems for you by providing you with AIF-C01 Questions. The Amazon AIF-C01 certification exam is undoubtedly a challenging task, but it can be made much easier with the help of Prep4away's reliable preparation material.

Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details

Topic 1	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	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	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 4	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 5	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.

Amazon AWS Certified AI Practitioner Sample Questions (Q235-Q240):

NEW QUESTION # 235

A company is using Amazon SageMaker to develop AI models.

Select the correct SageMaker feature or resource from the following list for each step in the AI model lifecycle workflow. Each SageMaker feature or resource should be selected one time or not at all. (Select TWO.)

* SageMaker Clarify

* SageMaker Model Registry

* SageMaker Serverless Inference

Managing different versions of the model

Select...

Select...

SageMaker Clarify

SageMaker Model Registry

SageMaker Serverless Inference

Using the current model to make predictions

Select...

Select...

SageMaker Clarify

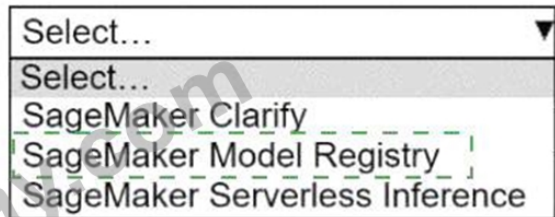
SageMaker Model Registry

SageMaker Serverless Inference

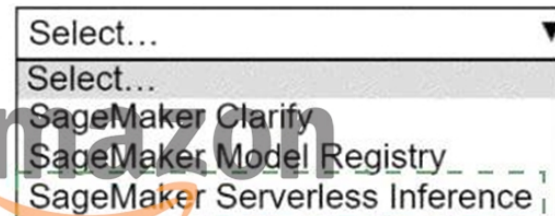
Answer:

Explanation:

Managing different versions of the model



Using the current model to make predictions



Explanation:



SageMaker Model Registry, SageMaker Serverless inference

This question requires selecting the appropriate Amazon SageMaker feature for two distinct steps in the AI model lifecycle. Let's break down each step and evaluate the options:

Step 1: Managing different versions of the model

The goal here is to identify a SageMaker feature that supports version control and management of machine learning models. Let's analyze the options:

- * SageMaker Clarify: This feature is used to detect bias in models and explain model predictions, helping with fairness and interpretability. It does not provide functionality for managing model versions.

- * SageMaker Model Registry: This is a centralized repository in Amazon SageMaker that allows users to catalog, manage, and track different versions of machine learning models. It supports model versioning, approval workflows, and deployment tracking, making it ideal for managing different versions of a model.

- * SageMaker Serverless Inference: This feature enables users to deploy models for inference without managing servers, automatically scaling based on demand. It is focused on inference (predictions), not on managing model versions.

Conclusion for Step 1: The SageMaker Model Registry is the correct choice for managing different versions of the model.

Exact Extract Reference: According to the AWS SageMaker documentation, "The SageMaker Model Registry allows you to catalog models for production, manage model versions, associate metadata, and manage approval status for deployment." (Source: AWS SageMaker Documentation - Model Registry,

<https://docs.aws.amazon.com/sagemaker/latest/dg/model-registry.html>).

Step 2: Using the current model to make predictions

The goal here is to identify a SageMaker feature that facilitates making predictions (inference) with a deployed model. Let's evaluate the options:

- * SageMaker Clarify: As mentioned, this feature focuses on bias detection and explainability, not on performing inference or making predictions.

- * SageMaker Model Registry: While the Model Registry helps manage and catalog models, it is not used directly for making predictions. It can store models, but the actual inference process requires a deployment mechanism.

- * SageMaker Serverless Inference: This feature allows users to deploy models for inference without managing infrastructure. It automatically scales based on traffic and is specifically designed for making predictions in a cost-efficient, serverless manner.

Conclusion for Step 2: SageMaker Serverless Inference is the correct choice for using the current model to make predictions.

Exact Extract Reference: The AWS documentation states, "SageMaker Serverless Inference is a deployment option that allows you to deploy machine learning models for inference without configuring or managing servers. It automatically scales to handle inference requests, making it ideal for workloads with intermittent or unpredictable traffic." (Source: AWS SageMaker Documentation - Serverless Inference, <https://docs.aws.amazon.com/sagemaker/latest/dg/serverless-inference.html>).

Why Not Use the Same Feature Twice?

The question specifies that each SageMaker feature or resource should be selected one time or not at all. Since SageMaker Model Registry is used for version management and SageMaker Serverless Inference is used for predictions, each feature is selected exactly once. SageMaker Clarify is not applicable to either step, so it is not selected at all, fulfilling the question's requirements.

:

AWS SageMaker Documentation: Model Registry (<https://docs.aws.amazon.com/sagemaker/latest/dg/model-registry.html>) AWS

SageMaker Documentation: Serverless Inference (<https://docs.aws.amazon.com/sagemaker/latest/dg/serverless-inference.html>)

AWS AI Practitioner Study Guide (conceptual alignment with SageMaker features for model lifecycle management and inference)
Let's format this question according to the specified structure and provide a detailed, verified answer based on AWS AI Practitioner knowledge and official AWS documentation. The question focuses on selecting an AWS database service that supports storage and queries of embeddings as vectors, which is relevant to generative AI applications.

NEW QUESTION # 236

Which option is a benefit of ongoing pre-training when fine-tuning a foundation model (FM)?

- **A. Improves model performance over time**
- B. Helps decrease the model's complexity
- C. Decreases the training time requirement
- D. Optimizes model inference time

Answer: A

NEW QUESTION # 237

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

Answer: C

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 # 238

A company wants to assess the costs that are associated with using a large language model (LLM) to generate inferences. The company wants to use Amazon Bedrock to build generative AI applications.

Which factor will drive the inference costs?

- A. Total training time
- B. Amount of data used to train the LLM
- **C. Number of tokens consumed**
- D. Temperature value

Answer: C

NEW QUESTION # 239

Which option is a use case for generative AI models?

- A. Analyzing financial data to forecast stock market trends
- **B. Creating photorealistic images from text descriptions for digital marketing**
- C. Improving network security by using intrusion detection systems

- D. Enhancing database performance by using optimized indexing

Answer: B

Explanation:

Generative AI models are used to create new content based on existing data. One common use case is generating photorealistic images from text descriptions, which is particularly useful in digital marketing, where visual content is key to engaging potential customers.

Option B (Correct): "Creating photorealistic images from text descriptions for digital marketing": This is the correct answer because generative AI models, like those offered by Amazon Bedrock, can create images based on text descriptions, making them highly valuable for generating marketing materials.

Option A: "Improving network security by using intrusion detection systems" is incorrect because this is a use case for traditional machine learning models, not generative AI.

Option C: "Enhancing database performance by using optimized indexing" is incorrect as it is unrelated to generative AI.

Option D: "Analyzing financial data to forecast stock market trends" is incorrect because it typically involves predictive modeling rather than generative AI.

AWS AI Practitioner Reference:

Use Cases for Generative AI Models on AWS: AWS highlights the use of generative AI for creative content generation, including image creation, text generation, and more, which is suited for digital marketing applications.

NEW QUESTION # 240

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