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Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details

Topic 1	• 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	• 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 3	• 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	• 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	• 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.

Amazon AWS Certified AI Practitioner Sample Questions (Q119-Q124):

NEW QUESTION # 119

A financial company is developing a generative AI application for loan approval decisions. The company needs the application output to be responsible and fair.

Which solution meets these requirements?

- A. Continuously monitor the model's performance on a static test dataset.
- B. Use a deep learning model with many hidden layers.
- C. Keep the model's decision-making process a secret to protect proprietary algorithms.
- **D. Review the training data to check for biases. Include data from all demographics in the training data.**

Answer: D

Explanation:

The correct answer is A because ensuring responsibility and fairness in ML begins with bias detection in the training data. Including a balanced representation of all demographics ensures the model learns fairly across different groups, which is critical in regulated industries like finance.

From AWS documentation:

"A key principle of responsible AI is building models that do not propagate or amplify bias. Fairness begins with training data.

Reviewing and augmenting data for representation is essential." Explanation of other options:

B). The number of hidden layers doesn't inherently improve fairness or responsibility.

C). Keeping decisions opaque violates explainability principles in responsible AI.

D). A static dataset can become outdated and may not reflect real-world shifts, which limits fairness assessment over time.

Referenced AWS AI/ML Documents and Study Guides:

- * Amazon SageMaker Clarify Documentation - Bias Detection and Explainability
- * AWS Responsible AI Guidelines
- * AWS ML Specialty Study Guide - Fairness and Governance

NEW QUESTION # 120

A company wants to develop a solution that uses generative AI to create content for product advertisements, including sample images and slogans.

Select the correct model type from the following list for each action. Each model type should be selected one time. (Select THREE.)

- * Diffusion model

- * Object detection model
- * Transformer-based model

Create high-quality images that are influenced by the generated slogans and product

Create contextually relevant slogans based on the advertisement product

Ensure that company brand elements are properly placed in the images

amazon

Select...
Select...
Diffusion model
Object detection model
Transformer-based model

Select...
Select...
Diffusion model
Object detection model
Transformer-based model

Select...
Select...
Diffusion model
Object detection model
Transformer-based model

Answer:

Explanation:

Create high-quality images that are influenced by the generated slogans and product

Create contextually relevant slogans based on the advertisement product

Ensure that company brand elements are properly placed in the images

amazon

Select...
Select...
Diffusion model
Object detection model
Transformer-based model

Select...
Select...
Diffusion model
Object detection model
Transformer-based model

Select...
Select...
Diffusion model
Object detection model
Transformer-based model

Reference:

Transformer-based models (such as GPT or Amazon Titan Text) are designed for generating and understanding natural language. These models can generate coherent, contextually relevant slogans based on product information. Object detection models are designed to identify and locate objects within images, which makes them suitable for verifying that specific brand elements (like logos or products) are correctly positioned in the generated content.

NEW QUESTION # 121

HOTSPOT

Select the correct AI term from the following list for each statement. Each AI term should be selected one time. (Select THREE.)

- * AI
- * Deep learning
- * ML

Simulates human problem-solving capabilities

Applies data-driven learning techniques to make predictions

Focuses on processing data through intricate neural networks

Answer:

Explanation:

Simulates human problem-solving capabilities

Applies data-driven learning techniques to make predictions

Focuses on processing data through intricate neural networks

Explanation:

Simulates human problem-solving capabilities

Applies data-driven learning techniques to make predictions

Focuses on processing data through intricate neural networks

Artificial Intelligence (AI) is the broad field focused on simulating human problem-solving and cognitive abilities, including reasoning, perception, and decision-making

(Reference: AWS Certified AI Practitioner Official Study Guide)

Machine Learning (ML) is a subset of AI that uses data-driven algorithms to identify patterns and make predictions without explicit programming for each specific task.

(Reference: AWS Machine Learning Overview)

Deep learning is a subset of ML that uses neural networks with many layers (deep neural networks) to process complex data and extract high-level features.

(Reference: AWS Deep Learning on AWS)

NEW QUESTION # 122

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

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

Explanation:

Managing different versions of the model

SageMaker Model Registry

Using the current model to make predictions

SageMaker Serverless Inference

SageMaker Model Registry, SageMaker Serverless interference

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>).

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.

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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 # 123

A company wants to use a large language model (LLM) to develop a conversational agent. The company needs to prevent the LLM from being manipulated with common prompt engineering techniques to perform undesirable actions or expose sensitive information. Which action will reduce these risks?

- A. Create a prompt template that teaches the LLM to detect attack patterns.
- B. Decrease the number of input tokens on invocations of the LLM.
- C. Increase the temperature parameter on invocation requests to the LLM.
- D. Avoid using LLMs that are not listed in Amazon SageMaker.

Answer: A

NEW QUESTION # 124

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