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Amazon AWS Certified AI Practitioner Sample Questions (Q240-Q245):

NEW QUESTION # 240
A company deployed an AI/ML solution to help customer service agents respond to frequently asked questions. The questions can change over time. The company wants to give customer service agents the ability to ask questions and receive automatically generated answers to common customer questions.
Which strategy will meet these requirements MOST cost-effectively?

- A. Pre-train and benchmark the model by using context data.
- B. Use Retrieval Augmented Generation (RAG) with prompt engineering techniques.

- C. Fine-tune the model regularly.
- D. Train the model by using context data.

Answer: B

Explanation:
RAG combines large pre-trained models with retrieval mechanisms to fetch relevant context from a knowledge base. This approach is cost-effective as it eliminates the need for frequent model retraining while ensuring responses are contextually accurate and up to date. References: AWS RAG Techniques.

NEW QUESTION # 241
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 Rekognition
- B. Amazon SageMaker Model Monitor
- C. Amazon Comprehend
- D. Amazon SageMaker Clarify

Answer: B

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:
* 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.
:
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 # 242
A company is developing an ML model to make loan approvals. The company must implement a solution to detect bias in the model. The company must also be able to explain the model's predictions.
Which solution will meet these requirements?

- A. Amazon SageMaker Clarify
- B. Amazon SageMaker Model Cards
- C. Amazon SageMaker Data Wrangler
- D. AWS AI Service Cards

Answer: A

Explanation:
Amazon SageMaker Clarify provides built-in tools to detect bias in data and models, and to generate detailed explainability reports for model predictions, including SHAP values and feature importance.
* A is correct:
"Amazon SageMaker Clarify provides bias detection, explainability for ML models, and comprehensive reports to satisfy regulatory and ethical requirements." (Reference: Amazon SageMaker Clarify Overview)
* B (Data Wrangler) is for data preparation, not bias/explainability.
* C (Model Cards) document models, but don't detect bias or explain predictions.
* D (AI Service Cards) provide transparency for AWS AI services, not custom model explainability.

NEW QUESTION # 243

A retail company wants to build an ML model to recommend products to customers. The company wants to build the model based on responsible practices. Which practice should the company apply when collecting data to decrease model bias?

- A. Collect data from customers who have a past purchase history.
- B. Use data from only customers who match the demography of the company's overall customer base.
- C. Ensure that the data is balanced and collected from a diverse group.
- D. Ensure that the data is from a publicly available dataset.

Answer: C

Explanation:
The retail company wants to build an ML model for product recommendations using responsible practices to decrease model bias. Collecting balanced and diverse data ensures the model does not favor specific groups, reducing bias and promoting fairness, a key responsible AI practice.
Exact Extract from AWS AI Documents:
From the AWS AI Practitioner Learning Path:
"To reduce model bias, it is critical to collect balanced and diverse data that represents various demographics and user groups. This practice ensures fairness and prevents the model from disproportionately favoring certain populations." (Source: AWS AI Practitioner Learning Path, Module on Responsible AI) Detailed Explanation:
Option A: Use data from only customers who match the demography of the company's overall customer base.
Limiting data to a specific demographic may reinforce existing biases, failing to address underrepresented groups and increasing bias.
Option B: Collect data from customers who have a past purchase history.Focusing only on customers with purchase history may exclude new users, potentially introducing bias, and does not address diversity.
Option C: Ensure that the data is balanced and collected from a diverse group.This is the correct answer. A balanced and diverse dataset reduces bias by ensuring the model learns from a representative sample, aligning with responsible AI practices.
Option D: Ensure that the data is from a publicly available dataset.Public datasets may not be diverse or representative of the company's customer base and could introduce unrelated biases, failing to address fairness.
References:
AWS AI Practitioner Learning Path: Module on Responsible AI
Amazon SageMaker Developer Guide: Bias and Fairness in ML (https://docs.aws.amazon.com/sagemaker/latest/dg/clarify-bias.html)
AWS Documentation: Responsible AI Practices (https://aws.amazon.com/machine-learning/responsible-ai/)

NEW QUESTION # 244

A company wants to improve the accuracy of the responses from a generative AI application. The application uses a foundation model (FM) on Amazon Bedrock.
Which solution meets these requirements MOST cost-effectively?

- A. Retrain the FM.
- B. Fine-tune the FM.
- C. Use prompt engineering.
- D. Train a new FM.

Answer: C

Explanation:
The company wants to improve the accuracy of a generative AI application using a foundation model (FM) on Amazon Bedrock in the most cost-effective way. Prompt engineering involves optimizing the input prompts to guide the FM to produce more accurate

responses without modifying the model itself. This approach is cost- effective because it does not require additional computational resources or training, unlike fine-tuning or retraining.

Exact Extract from AWS AI Documents:

From the AWS Bedrock User Guide:

"Prompt engineering is a cost-effective technique to improve the performance of foundation models. By crafting precise and context-rich prompts, users can guide the model to generate more accurate and relevant responses without the need for fine-tuning or retraining." (Source: AWS Bedrock User Guide, Prompt Engineering for Foundation Models) Detailed Explanation:

* Option A: Fine-tune the FM.Fine-tuning involves retraining the FM on a custom dataset, which requirescomputational resources, time, and cost (e.g., for Amazon Bedrock fine-tuning jobs). It is not the most cost-effective solution.

* Option B: Retrain the FM.Retraining an FM from scratch is highly resource-intensive and expensive, as it requires large datasets and significant compute power. This is not cost-effective.

* Option C: Train a new FM.Training a new FM is the most expensive option, as it involves building a model from the ground up, requiring extensive data, compute resources, and expertise. This is not cost- effective.

* Option D: Use prompt engineering.This is the correct answer. Prompt engineering adjusts the input prompts to improve the FM's responses without incurring additional compute costs, making it the most cost-effective solution for improving accuracy on Amazon Bedrock.

References:

AWS Bedrock User Guide: Prompt Engineering for Foundation Models (https://docs.aws.amazon.com /bedrock/latest/userguide/prompt-engineering.html)

AWS AI Practitioner Learning Path: Module on Generative AI Optimization Amazon Bedrock Developer Guide: Cost Optimization for Generative AI (https://aws.amazon.com/bedrock/)

NEW QUESTION # 245

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