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Amazon AWS Certified AI Practitioner Sample Questions (Q268-Q273):

NEW QUESTION # 268
A company is building a chatbot to improve user experience. The company is using a large language model (LLM) from Amazon Bedrock for intent detection. The company wants to use few-shot learning to improve intent detection accuracy.
Which additional data does the company need to meet these requirements?

- A. Pairs of user intents and correct chatbot responses
- B. Pairs of user messages and correct chatbot responses
- C. Pairs of user messages and correct user intents
- D. Pairs of chatbot responses and correct user intents

Answer: C

NEW QUESTION # 269
An AI company periodically evaluates its systems and processes with the help of independent software vendors (ISVs). The

company needs to receive email message notifications when an ISV's compliance reports become available.

- A. AWS Artifact
- B. AWS Data Exchange
- C. AWS Trusted Advisor
- D. AWS Audit Manager

Answer: B

NEW QUESTION # 270

Which technique involves training AI models on labeled datasets to adapt the models to specific industry terminology and requirements?

- A. Model quantization
- B. Data augmentation
- C. Continuous pre-training
- D. Fine-tuning

Answer: D

Explanation:
Fine-tuning involves training a pre-trained AI model on a labeled dataset specific to a particular task or domain, adapting it to industry terminology and requirements. This process adjusts the model's parameters to better fit the target use case, such as understanding specialized vocabulary or meeting domain-specific needs.
Exact Extract from AWS AI Documents:
From the AWS Bedrock User Guide:
"Fine-tuning allows you to adapt a pre-trained foundation model to your specific use case by training it on a labeled dataset. This technique is commonly used to customize models for industry-specific terminology, improving their accuracy for specialized tasks."
(Source: AWS Bedrock User Guide, Model Customization) Detailed Explanation:
* Option A: Data augmentationData augmentation involves generating synthetic data to expand a training dataset, typically for tasks like image or text generation. It does not specifically adapt models to industry terminology or requirements.
* Option B: Fine-tuningThis is the correct answer. Fine-tuning trains a pre-trained model on a labeled dataset tailored to the target domain, enabling it to learn industry-specific terminology and requirements, as described in the question.
* Option C: Model quantizationModel quantization reduces the precision of a model's weights to optimize it for deployment (e.g., on edge devices). It does not involve training on labeled datasets or adapting to industry terminology.
* Option D: Continuous pre-trainingContinuous pre-training extends the initial training of a model on a large, general dataset. While it can improve general performance, it is not specifically tailored to industry requirements using labeled datasets, unlike fine-tuning.
References:
AWS Bedrock User Guide: Model Customization (https://docs.aws.amazon.com/bedrock/latest/userguide/custom-models.html)
AWS AI Practitioner Learning Path: Module on Model Training and Customization Amazon SageMaker Developer Guide: Fine-Tuning Models (https://docs.aws.amazon.com/sagemaker/latest/dg/algos.html)

NEW QUESTION # 271

A large retail bank wants to develop an ML system to help the risk management team decide on loan allocations for different demographics.
What must the bank do to develop an unbiased ML model?

- A. Measure class imbalance on the training dataset. Adapt the training process accordingly.
- B. Create a different ML model for each demographic group.
- C. Reduce the size of the training dataset.
- D. Ensure that the ML model predictions are consistent with historical results.

Answer: A

Explanation:
Class imbalance in a training dataset can cause ML models to favor overrepresented groups, leading to biased predictions. The AWS AI Practitioner guide and SageMaker Clarify documentation emphasize the need to identify and mitigate class imbalance to

ensure fairness and unbiased model outcomes.

D is correct: By measuring class imbalance and adapting the training process (e.g., through oversampling, undersampling, or using class weights), organizations can improve fairness and reduce bias across demographic groups.

A (reducing data size) could worsen bias by removing potentially useful diverse data.

B (consistency with historical results) might reinforce existing biases.

C (separate models) is not scalable and can introduce other fairness issues.

"To reduce bias, examine class imbalance in your training data and use techniques to ensure all groups are fairly represented."
(Reference: AWS SageMaker Clarify: Mitigating Bias, AWS Responsible AI)

"To reduce bias, examine class imbalance in your training data and use techniques to ensure all groups are fairly represented."
(Reference: AWS SageMaker Clarify: Mitigating Bias, AWS Responsible AI)

NEW QUESTION # 272

A company that uses multiple ML models wants to identify changes in original model quality so that the company can resolve any issues.

Which AWS service or feature meets these requirements?

- A. Amazon SageMaker HyperPod
- B. Amazon SageMaker Data Wrangler
- C. Amazon SageMaker Model Monitor
- D. Amazon SageMaker JumpStart

Answer: C

Explanation:

Amazon SageMaker Model Monitor is specifically designed to automatically detect and alert on changes in model quality, such as data drift, prediction drift, or other anomalies in model performance once deployed.

D is correct:

"Amazon SageMaker Model Monitor continuously monitors the quality of machine learning models in production. It automatically detects concept drift, data drift, and other quality issues, enabling teams to take corrective actions." (Reference: Amazon SageMaker Model Monitor Documentation, AWS Certified AI Practitioner Study Guide)

"Amazon SageMaker Model Monitor continuously monitors the quality of machine learning models in production. It automatically detects concept drift, data drift, and other quality issues, enabling teams to take corrective actions." (Reference: Amazon SageMaker Model Monitor Documentation, AWS Certified AI Practitioner Study Guide) A (JumpStart) provides prebuilt solutions and models, not monitoring.

B (HyperPod) is for large-scale training, not model monitoring.

C (Data Wrangler) is for data preparation, not ongoing model quality monitoring.

NEW QUESTION # 273

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