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## Amazon AWS Certified AI Practitioner Sample Questions (Q329-Q334):

**NEW QUESTION # 329**
A company wants to build an ML model to detect abnormal patterns in sensor dat a. The company does not have labeled data for training. Which ML method will meet these requirements?

- A. Decision tree
- B. Linear regression
- C. Autoencoders
- D. Classification

**Answer: C**

Explanation:
The correct answer is D because autoencoders are an unsupervised machine learning method commonly used for anomaly detection when labeled data is not available.
From AWS documentation:
"Autoencoders learn to compress and reconstruct input data. During anomaly detection, they learn normal patterns in data. Data points that the model cannot accurately reconstruct are flagged as anomalies." This approach is ideal when there is no labeled data and when patterns must be learned based on normal behavior alone - a common situation in IoT sensor data environments.
Explanation of other options:
A . Linear regression requires labeled data and is used for predicting continuous values.
B . Classification requires labeled data to assign inputs into categories.
C . Decision trees are supervised learning models and also require labeled datasets.
Referenced AWS AI/ML Documents and Study Guides:

## NEW QUESTION # 330

An airline company wants to build a conversational AI assistant to answer customer questions about flight schedules, booking, and payments. The company wants to use large language models (LLMs) and a knowledge base to create a text-based chatbot interface.

Which solution will meet these requirements with the LEAST development effort?

- A. Fine-tune models on Amazon SageMaker Jumpstart.
- B. Train models on Amazon SageMaker Autopilot.
- C. Create a Python application by using Amazon Q Developer.
- D. Develop a Retrieval Augmented Generation (RAG) agent by using Amazon Bedrock.

**Answer: D**

Explanation:

The airline company aims to build a conversational AI assistant using large language models (LLMs) and a knowledge base to create a text-based chatbot with minimal development effort. Retrieval Augmented Generation (RAG) on Amazon Bedrock is an ideal solution because it combines LLMs with a knowledge base to provide accurate, contextually relevant responses without requiring extensive model training or custom development. RAG retrieves relevant information from a knowledge base and uses an LLM to generate responses, simplifying the development process.

Exact Extract from AWS AI Documents:

From the AWS Bedrock User Guide:

"Retrieval Augmented Generation (RAG) in Amazon Bedrock enables developers to build conversational AI applications by combining foundation models with external knowledge bases. This approach minimizes development effort by leveraging pre-trained models and integrating them with data sources, such as FAQs or databases, to provide accurate and contextually relevant responses." (Source: AWS Bedrock User Guide, Retrieval Augmented Generation) Detailed Option A: Train models on Amazon SageMaker Autopilot.SageMaker Autopilot is designed for automated machine learning (AutoML) tasks like classification or regression, not for building conversational AI with LLMs and knowledge bases. It requires significant data preparation and is not optimized for chatbot development, making it less suitable.

Option B: Develop a Retrieval Augmented Generation (RAG) agent by using Amazon Bedrock.This is the correct answer. RAG on Amazon Bedrock allows the company to use pre-trained LLMs and integrate them with a knowledge base (e.g., flight schedules or FAQs) to build a chatbot with minimal effort. It avoids the need for extensive training or coding, aligning with the requirement for least development effort.

Option C: Create a Python application by using Amazon Q Developer.While Amazon Q Developer can assist with code generation, building a chatbot from scratch in Python requires significant development effort, including integrating LLMs and a knowledge base manually, which is more complex than using RAG on Bedrock.

Option D: Fine-tune models on Amazon SageMaker Jumpstart.Fine-tuning models on SageMaker Jumpstart requires preparing training data and customizing LLMs, which involves more effort than using a pre-built RAG solution on Bedrock. This option is not the least effort-intensive.

Reference:

AWS Bedrock User Guide: Retrieval Augmented Generation (https://docs.aws.amazon.com/bedrock/latest/userguide/rag.html)
AWS AI Practitioner Learning Path: Module on Generative AI and Conversational AI Amazon Bedrock Developer Guide: Building Conversational AI (https://aws.amazon.com/bedrock/)

## NEW QUESTION # 331

A company deployed a model to production. After 4 months, the model inference quality degraded. The company wants to receive a notification if the model inference quality degrades. The company also wants to ensure that the problem does not happen again.

Which solution will meet these requirements?

- A. Retrain the model. Monitor model drift by using Amazon SageMaker Clarify.
- B. Retrain the model. Monitor model drift by using Amazon SageMaker Model Monitor.
- C. Build a new model. Monitor model drift by using Amazon SageMaker Feature Store.
- D. Build a new model. Monitor model drift by using Amazon SageMaker JumpStart.

**Answer: B**

Explanation:

The company needs to address the degradation in model inference quality after 4 months in production and prevent future occurrences by receiving notifications. Retraining the model can address the current degradation, likely caused by data drift (changes in the data distribution over time). Amazon SageMaker Model Monitor is designed to detect and monitor model drift, alerting the company when inference quality degrades, thus meeting both requirements.

Exact Extract from AWS AI Documents:

From the Amazon SageMaker Developer Guide:

"Amazon SageMaker Model Monitor enables you to monitor machine learning models in production for data drift, model performance degradation, and other quality issues. It can detect drift in feature distributions and inference quality, sending notifications when deviations are detected, allowing you to take corrective actions such as retraining the model." (Source: Amazon SageMaker Developer Guide, Monitoring Models with SageMaker Model Monitor) Detailed Option A: Retrain the model. Monitor model drift by using Amazon SageMaker Clarify.SageMaker Clarify is used for bias detection and explainability, not for monitoring model drift or inference quality in production. This option does not fully meet the requirements.

Option B: Retrain the model. Monitor model drift by using Amazon SageMaker Model Monitor.This is the correct answer. Retraining addresses the current degradation, and SageMaker Model Monitor can detect future drift in inference quality, sending notifications to prevent recurrence, as required.

Option C: Build a new model. Monitor model drift by using Amazon SageMaker Feature Store.SageMaker Feature Store is for managing and sharing features, not for monitoring model drift or inference quality. Building a new model may not be necessary if retraining can address the issue.

Option D: Build a new model. Monitor model drift by using Amazon SageMaker JumpStart.SageMaker JumpStart provides pre-trained models and solutions for quick deployment, but it does not offer specific tools for monitoring model drift or inference quality in production.

Reference:

Amazon SageMaker Developer Guide: Monitoring Models with SageMaker Model Monitor (https://docs.aws.amazon.com/sagemaker/latest/dg/model-monitor.html) AWS AI Practitioner Learning Path: Module on Model Monitoring and Maintenance AWS Documentation: Addressing Model Drift in Production (https://aws.amazon.com/sagemaker/)

# NEW QUESTION # 332

A company has implemented a generative AI solution to create personalized exercise routines for premium subscription users. The company offers free basic subscriptions and paid premium subscriptions.

The company wants to evaluate the AI solution's return on investment over time.

- A. The decrease in the number of premium customer queries and issue volume
- B. The average revenue per user (ARPU) over the past month
- C. The conversion rate and the customer retention rate
- D. The number of daily interactions by basic subscription users

**Answer: C**

# NEW QUESTION # 333

A company needs to build its own large language model (LLM) based on only the company's private data. The company is concerned about the environmental effect of the training process.

Which Amazon EC2 instance type has the LEAST environmental effect when training LLMs?

- A. Amazon EC2 G series
- B. Amazon EC2 Trn series
- C. Amazon EC2 P series
- D. Amazon EC2 C series

**Answer: B**

Explanation:

The Amazon EC2 Trn series (Trainium) instances are designed for high-performance, cost-effective machine learning training while being energy-efficient. AWS Trainium-powered instances are optimized for deep learning models and have been developed to minimize environmental impact by maximizing energy efficiency.

* Option D (Correct): "Amazon EC2 Trn series": This is the correct answer because the Trn series is purpose-built for training deep learning models with lower energy consumption, which aligns with the company's concern about environmental effects.

* Option A: "Amazon EC2 C series" is incorrect because it is intended for compute-intensive tasks but not specifically optimized for ML training with environmental considerations.

* Option B: "Amazon EC2 G series" (Graphics Processing Unit instances) is optimized for graphics- intensive applications but does

not focus on minimizing environmental impact for training.
* Option C: "Amazon EC2 P series" is designed for ML training but does not offer the same level of energy efficiency as the Trn series.
AWS AI Practitioner References:
* AWS Trainium Overview: AWS promotes Trainium instances as their most energy-efficient and cost- effective solution for ML model training.


### NEW QUESTION # 334

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