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## Reliable AIF-C01 Exam Question - Interactive AIF-C01 Practice Exam

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## Amazon AWS Certified AI Practitioner Sample Questions (Q101-Q106):

### NEW QUESTION # 101

A company wants to create a chatbot to answer employee questions about company policies. Company policies are updated frequently. The chatbot must reflect the changes in near real time. The company wants to choose a large language model (LLM).

- A. Use Amazon Q Business to build a custom Q App.
- B. Fine-tune an LLM on the company policy text by using Amazon SageMaker.
- C. Select a foundation model (FM) from Amazon Bedrock to build an application.
- **D. Create a Retrieval Augmented Generation (RAG) workflow by using Amazon Bedrock Knowledge Bases.**

**Answer: D**

Explanation:

The correct answer is C because Retrieval-Augmented Generation (RAG) allows a large language model to provide responses based on up-to-date content from external data sources without the need to fine-tune the model.

According to the AWS Bedrock Developer Guide:

"Amazon Bedrock Knowledge Bases enables developers to augment foundation models (FMs) with company- specific data that is updated in real time or near real time. By separating retrieval from the model itself, RAG- based approaches avoid the need for frequent retraining or fine-tuning." This means a company can use a knowledge base with Amazon Bedrock to dynamically fetch the latest company policy information and feed it to the LLM in the prompt. This approach is ideal for use cases where the content (like policies) changes frequently, and latency for updates must be minimal.

Explanation of other options:

- A). Fine-tuning an LLM with SageMaker is not optimal for frequently updated data. Fine-tuning involves retraining and redeploying the model, which is time-consuming and not suited for real-time updates. As stated in the SageMaker documentation: "Fine-tuning is best used for use cases where the data changes infrequently and where highly specific model behavior is required."
- B). Selecting a foundation model alone does not fulfill the real-time requirement. The FM's base knowledge is static unless augmented through additional methods like RAG.
- D). Amazon Q Business is intended for workplace productivity and enterprise use but is more opinionated in structure and doesn't provide the same flexibility as a custom RAG workflow for building a tailored chatbot application. While it supports some real-time data sync features, it's not purpose-built for LLM-based chat systems with dynamic data feeds like Knowledge Bases in Bedrock. Therefore, the most appropriate and scalable solution aligned with AWS recommendations is C.
- Referenced AWS AI/ML Documents and Study Guides:
- \* Amazon Bedrock Developer Guide - Knowledge Bases and RAG (2024 Edition)
  - \* AWS Certified Machine Learning Specialty Study Guide - Generative AI Section
  - \* AWS Documentation: Choosing Between Fine-Tuning and RAG for LLM Applications
  - \* Amazon SageMaker Documentation - Model Tuning and Deployment Best Practices (2024)

### NEW QUESTION # 102

A company has installed a security camera

a. The company uses an ML model to evaluate the security camera footage for potential thefts. The company has discovered that the model disproportionately flags people who are members of a specific ethnic group.

Which type of bias is affecting the model output?

- A. Confirmation bias
- B. Observer bias
- C. Measurement bias
- **D. Sampling bias**

**Answer: D**

### NEW QUESTION # 103

A company is building a mobile app for users who have a visual impairment. The app must be able to hear what users say and provide voice responses.

Which solution will meet these requirements?

- A. Use generative AI summarization to generate human-like text.
- B. Build custom models for image classification and recognition.
- **C. Use a deep learning neural network to perform speech recognition.**
- D. Build ML models to search for patterns in numeric data.

**Answer: C**

Explanation:

The mobile app for users with visual impairment needs to hear user speech and provide voice responses, requiring speech-to-text (speech recognition) and text-to-speech capabilities. Deep learning neural networks are widely used for speech recognition tasks, as they can effectively process and transcribe spoken language. AWS services like Amazon Transcribe, which uses deep learning for speech recognition, can fulfill this requirement by converting user speech to text, and Amazon Polly can generate voice responses.

Exact Extract from AWS AI Documents:

From the AWS Documentation on Amazon Transcribe:

"Amazon Transcribe uses deep learning neural networks to perform automatic speech recognition (ASR), converting spoken language into text with high accuracy. This is ideal for applications requiring voice input, such as accessibility features for visually impaired users." (Source: Amazon Transcribe Developer Guide, Introduction to Amazon Transcribe) Detailed Option A: Use a deep learning neural network to perform speech recognition. This is the correct answer. Deep learning neural networks are the foundation of modern speech recognition systems, as used in AWS services like Amazon Transcribe. They enable the app to hear and transcribe user speech, and a service like Amazon Polly can handle voice responses, meeting the requirements.

Option B: Build ML models to search for patterns in numeric data. This option is irrelevant, as the task involves processing speech (audio data) and generating voice responses, not analyzing numeric data patterns.

Option C: Use generative AI summarization to generate human-like text. Generative AI summarization focuses on summarizing text, not processing speech or generating voice responses. This option does not address the core requirement of speech recognition.

Option D: Build custom models for image classification and recognition. Image classification and recognition are unrelated to processing speech or generating voice responses, making this option incorrect for an app focused on audio interaction.

Reference:

Amazon Transcribe Developer Guide: Introduction to Amazon Transcribe (<https://docs.aws.amazon.com/transcribe/latest/dg/what-is.html>) Amazon Polly Developer Guide: Text-to-Speech Overview (<https://docs.aws.amazon.com/polly/latest/dg/what-is.html>) AWS AI Practitioner Learning Path: Module on Speech Recognition and Synthesis

#### NEW QUESTION # 104

A company is using domain-specific models. The company wants to avoid creating new models from the beginning. The company instead wants to adapt pre-trained models to create models for new, related tasks. Which ML strategy meets these requirements?

- A. Use transfer learning.
- B. Increase the number of epochs.
- C. Use unsupervised learning.
- D. Decrease the number of epochs.

**Answer: A**

#### NEW QUESTION # 105

A company has built an image classification model to predict plant diseases from photos of plant leaves. The company wants to evaluate how many images the model classified correctly. Which evaluation metric should the company use to measure the model's performance?

- A. Learning rate
- B. Root mean squared error (RMSE)
- C. Accuracy
- D. R-squared score

**Answer: C**

Explanation:

Accuracy is the most appropriate metric to measure the performance of an image classification model. It indicates the percentage of correctly classified images out of the total number of images. In the context of classifying plant diseases from images, accuracy will help the company determine how well the model is performing by showing how many images were correctly classified.

\* Option B (Correct): "Accuracy": This is the correct answer because accuracy measures the proportion of correct predictions made by the model, which is suitable for evaluating the performance of a classification model.

\* Option A: "R-squared score" is incorrect as it is used for regression analysis, not classification tasks.

\* Option C: "Root mean squared error (RMSE)" is incorrect because it is also used for regression tasks to measure prediction errors, not for classification accuracy.

\* Option D: "Learning rate" is incorrect as it is a hyperparameter for training, not a performance metric.

AWS AI Practitioner References:

\* Evaluating Machine Learning Models on AWS: AWS documentation emphasizes the use of appropriate metrics, like accuracy, for classification tasks.

#### NEW QUESTION # 106

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