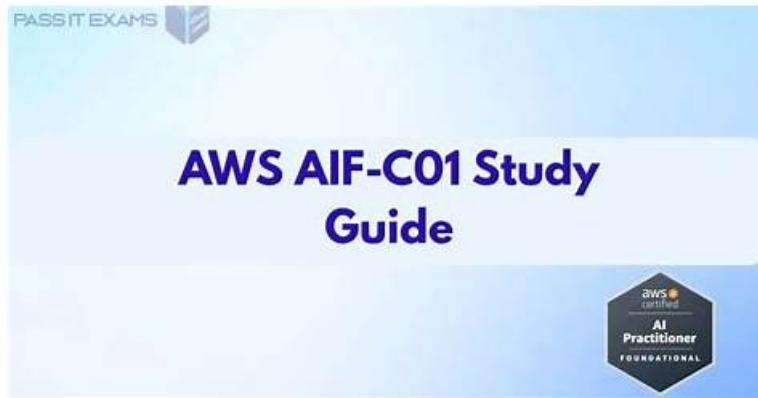


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## Amazon AWS Certified AI Practitioner Sample Questions (Q189-Q194):

### NEW QUESTION # 189

A company plans to use a generative AI model to provide real-time service quotes to users. Which criteria should the company use to select the correct model for this use case?

- A. Training data quality
- B. Model size
- C. General-purpose use and high-powered GPU availability
- D. Model latency and optimized inference speed

### Answer: D

Explanation:

The correct answer is D because low latency and optimized inference speed are critical for real-time applications. For delivering real-time service quotes, the system must respond in milliseconds or a few seconds at most, making latency a primary concern when choosing the model.

From AWS Bedrock documentation:

"When selecting a foundation model for real-time applications, inference speed and latency are key evaluation metrics to ensure responsive user experiences." Explanation of other options:

- A). Model size affects performance and cost but doesn't directly guarantee low latency.
- B). Training data quality is important for accuracy, but it doesn't address real-time performance requirements.
- C). GPU availability matters in infrastructure planning, not in model selection for latency optimization.

Referenced AWS AI/ML Documents and Study Guides:

- \* Amazon Bedrock Model Selection Guide - Real-time Use Case Considerations
- \* AWS ML Specialty Guide - Foundation Model Performance Criteria

## NEW QUESTION # 190

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

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

**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:

- \* AWS Machine Learning Specialty Guide - Unsupervised Learning Techniques
- \* Amazon SageMaker Examples - Anomaly Detection Using Autoencoders

## NEW QUESTION # 191

A company wants to use a pre-trained generative AI model to generate content for its marketing campaigns.

The company needs to ensure that the generated content aligns with the company's brand voice and messaging requirements.

Which solution meets these requirements?

- A. Increase the model's complexity by adding more layers to the model's architecture.
- B. Optimize the model's architecture and hyperparameters to improve the model's overall performance.
- C. Create effective prompts that provide clear instructions and context to guide the model's generation.
- D. Select a large, diverse dataset to pre-train a new generative model.

**Answer: C**

Explanation:

Creating effective prompts is the best solution to ensure that the content generated by a pre-trained generative AI model aligns with the company's brand voice and messaging requirements.

\* Effective Prompt Engineering:

\* Involves crafting prompts that clearly outline the desired tone, style, and content guidelines for the model.

\* By providing explicit instructions in the prompts, the company can guide the AI to generate content that matches the brand's voice and messaging.

\* Why Option C is Correct:

\* Guides Model Output: Ensures the generated content adheres to specific brand guidelines by shaping the model's response through the prompt.

\* Flexible and Cost-effective: Does not require retraining or modifying the model, which is more resource-efficient.

\* Why Other Options are Incorrect:

- \* A. Optimize the model's architecture and hyperparameters: Improves model performance but does not specifically address alignment with brand voice.
- \* B. Increase model complexity: Adding more layers may not directly help with content alignment.
- \* D. Pre-training a new model: Is a costly and time-consuming process that is unnecessary if the goal is content alignment.

### NEW QUESTION # 192

A company needs to log all requests made to its Amazon Bedrock API. The company must retain the logs securely for 5 years at the lowest possible cost.

Which combination of AWS service and storage class meets these requirements? (Select TWO.)

- A. Amazon S3 Standard
- B. **Amazon S3 Intelligent-Tiering**
- C. Amazon CloudWatch
- D. **AWS CloudTrail**
- E. AWS Audit Manager

**Answer: B,D**

### NEW QUESTION # 193

A company has installed a security camera. 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. **Sampling bias**
- B. Observer bias
- C. Measurement bias
- D. Confirmation bias

**Answer: A**

Explanation:

Sampling bias is the correct type of bias affecting the model output when it disproportionately flags people from a specific ethnic group.

\* Sampling Bias:

- \* Occurs when the training data is not representative of the broader population, leading to skewed model outputs.
- \* In this case, if the model disproportionately flags people from a specific ethnic group, it likely indicates that the training data was not adequately balanced or representative.

\* Why Option B is Correct:

- \* Reflects Data Imbalance: A biased sample in the training data could result in unfair outcomes, such as disproportionately flagging a particular group.

\* Common Issue in ML Models: Sampling bias is a known problem that can lead to unfair or inaccurate model predictions.

\* Why Other Options are Incorrect:

- \* A. Measurement bias: Involves errors in data collection or measurement, not sampling.
- \* C. Observer bias: Refers to bias introduced by researchers or data collectors, not the model's output.
- \* D. Confirmation bias: Involves favoring information that confirms existing beliefs, not relevant to model output bias.

### NEW QUESTION # 194

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