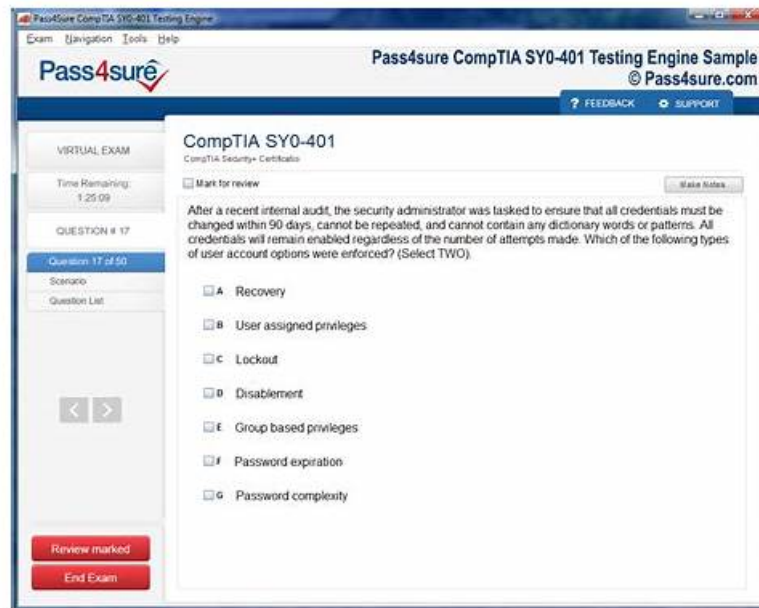


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Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	Applications of Foundation Models: This domain examines how foundation models, like large language models, are used in practical applications. It is designed for those who need to understand the real-world implementation of these models, including solution architects and data engineers who work with AI technologies to solve complex problems.

Topic 2	• Fundamentals of AI and ML: This domain covers the fundamental concepts of artificial intelligence (AI) and machine learning (ML), including core algorithms and principles. It is aimed at individuals new to AI and ML, such as entry-level data scientists and IT professionals.
Topic 3	• Guidelines for Responsible AI: This domain highlights the ethical considerations and best practices for deploying AI solutions responsibly, including ensuring fairness and transparency. It is aimed at AI practitioners, including data scientists and compliance officers, who are involved in the development and deployment of AI systems and need to adhere to ethical standards.
Topic 4	• Fundamentals of Generative AI: This domain explores the basics of generative AI, focusing on techniques for creating new content from learned patterns, including text and image generation. It targets professionals interested in understanding generative models, such as developers and researchers in AI.
Topic 5	• Security, Compliance, and Governance for AI Solutions: This domain covers the security measures, compliance requirements, and governance practices essential for managing AI solutions. It targets security professionals, compliance officers, and IT managers responsible for safeguarding AI systems, ensuring regulatory compliance, and implementing effective governance frameworks.

Amazon AWS Certified AI Practitioner Sample Questions (Q263-Q268):

NEW QUESTION # 263

Which type of ML technique provides the MOST explainability?

- A. Linear regression
- B. Support vector machines
- C. Neural network
- D. Random cut forest (RCF)

Answer: A

NEW QUESTION # 264

A company is building a generative AI application and is reviewing foundation models (FMs). The company needs to consider multiple FM characteristics.

Select the correct FM characteristic from the following list for each definition. Each FM characteristic should be selected one time. (Select THREE.)

- * Concurrency
- * Context windows
- * Latency

Amount of information that can fit in a single prompt

Select...

Select...

Concurrency

Context windows

Latency

Length of time it takes for a model to generate an output

Select...

Select...

Concurrency

Context windows

Latency

Multiple users invoking an application endpoint simultaneously

Select...

Select...

Concurrency

Context windows

Latency

amazon

Answer:

Explanation:

Amount of information that can fit in a single prompt

Select...
Select...
Concurrency
Context windows
Latency

Length of time it takes for a model to generate an output

Select...
Select...
Concurrency
Context windows
Latency

Multiple users invoking an application endpoint simultaneously

Select...
Select...
Concurrency
Context windows
Latency

Explanation:

Amount of information that can fit in a single prompt Context windows ▼

Length of time it takes for a model to generate an output Latency ▼

Multiple users invoking an application endpoint simultaneously Concurrency ▼

AWS References:

- * Amazon Bedrock - Model parameters and context window
- * AWS ML Inference - Latency and Throughput
- * AWS Scalability - Concurrency

NEW QUESTION # 265

Which technique can a company use to lower bias and toxicity in generative AI applications during the post- processing ML lifecycle?

- A. Adversarial training
- B. Data augmentation
- C. Feature engineering
- D. Human-in-the-loop

Answer: D

Explanation:

The correct answer is A because Human-in-the-loop (HITL) is a post-processing strategy used to monitor, review, and filter outputs from generative AI models for toxicity, bias, or inappropriate content. It allows human reviewers to approve or reject model responses before they are delivered to end-users, ensuring alignment with ethical guidelines and company policies.

From the AWS documentation:

"Human-in-the-loop (HITL) workflows in generative AI are used to validate and approve outputs of models, especially in applications where content quality, compliance, or harm reduction is critical. HITL is a key step in responsible AI implementations to mitigate hallucinations, bias, and unsafe content." Explanation of other options:

B). Data augmentation is a pre-processing technique to increase data diversity, not typically used in post- processing stages.

C). Feature engineering is relevant in traditional ML, especially structured data tasks, not typically used in generative AI post-processing.

D). Adversarial training is a model training strategy, not a post-processing mitigation approach.

Referenced AWS AI/ML Documents and Study Guides:

- * AWS Responsible AI Practices Whitepaper

- * AWS Generative AI Developer Guide - Human-in-the-loop and Post-processing
- * Amazon A2I Documentation - Integrating Human Review in ML Workflows

NEW QUESTION # 266

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

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) 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 # 267

A loan company is building a generative AI-based solution to offer new applicants discounts based on specific business criteria. The company wants to build and use an AI model responsibly to minimize bias that could negatively affect some customers.

Which actions should the company take to meet these requirements? (Select TWO.)

- A. Ensure that the model runs frequently.
- **B. Evaluate the model's behavior so that the company can provide transparency to stakeholders.**
- C. Ensure that the model's inference time is within the accepted limits.
- D. Use the Recall-Oriented Understudy for Gisting Evaluation (ROUGE) technique to ensure that the model is 100% accurate.
- **E. Detect imbalances or disparities in the data.**

Answer: B,E

Explanation:

To build an AI model responsibly and minimize bias, it is essential to ensure fairness and transparency throughout the model development and deployment process. This involves detecting and mitigating data imbalances and thoroughly evaluating the model's behavior to understand its impact on different groups.

Option A (Correct): "Detect imbalances or disparities in the data": This is correct because identifying and addressing data imbalances or disparities is a critical step in reducing bias. AWS provides tools like Amazon SageMaker Clarify to detect bias during data preprocessing and model training.

Option C (Correct): "Evaluate the model's behavior so that the company can provide transparency to stakeholders": This is correct because evaluating the model's behavior for fairness and accuracy is key to ensuring that stakeholders understand how the model makes decisions. Transparency is a crucial aspect of responsible AI.

Option B: "Ensure that the model runs frequently" is incorrect because the frequency of model runs does not address bias.

Option D: "Use the Recall-Oriented Understudy for Gisting Evaluation (ROUGE) technique to ensure that the model is 100% accurate" is incorrect because ROUGE is a metric for evaluating the quality of text summarization models, not for minimizing bias.

Option E: "Ensure that the model's inference time is within the accepted limits" is incorrect as it relates to performance, not bias reduction.

AWS AI Practitioner References:

Amazon SageMaker Clarify: AWS offers tools such as SageMaker Clarify for detecting bias in datasets and models, and for understanding model behavior to ensure fairness and transparency.

Responsible AI Practices: AWS promotes responsible AI by advocating for fairness, transparency, and inclusivity in model

development and deployment.

NEW QUESTION # 268

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