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Amazon AWS Certified AI Practitioner Sample Questions (Q238-Q243):

NEW QUESTION # 238

Which THREE of the following principles of responsible AI are most critical to this scenario? (Choose 3)

- * Explainability
- * Fairness
- * Privacy and security
- * Robustness

* Safety

Answer:

Explanation:

Explanation:

This question maps responsible AI principles to specific AI system practices as defined in AWS Responsible AI Guidelines and Amazon Bedrock Responsible AI documentation.

Scenario 1:

Encrypt the application data, and isolate the application on a private network.

Principle: Privacy and Security

From AWS documentation:

"Protecting user data through encryption, secure network isolation, and access control aligns with the Responsible AI principle of privacy and security. AWS recommends securing all data used by AI systems, both in transit and at rest, to maintain trust and regulatory compliance." Scenario 2:

Evaluate how different population groups will be impacted.

Principle: Fairness

From AWS documentation:

"The fairness principle ensures that AI models do not discriminate or generate biased outcomes across population groups. Fairness assessment involves evaluating performance metrics across demographic segments and mitigating any bias detected." Scenario 3:

Test the application with unexpected data to ensure the application will work in unique situations.

Principle: Robustness

From AWS documentation:

"Robustness refers to an AI system's ability to maintain reliable performance under varied, noisy, or unexpected input conditions. Testing for robustness helps ensure the model generalizes well and behaves safely in edge cases." Referenced AWS AI/ML

Documents and Study Guides:

AWS Responsible AI Practices Whitepaper - Core Principles of Responsible AI Amazon Bedrock Documentation - Responsible AI and Safety Controls AWS Certified Machine Learning Specialty Guide - AI Governance and Model Evaluation

NEW QUESTION # 239

A financial company is developing a generative AI application for loan approval decisions. The company needs the application output to be responsible and fair.

Which solution meets these requirements?

- A. Review the training data to check for biases. Include data from all demographics in the training data.
- B. Continuously monitor the model's performance on a static test dataset.
- C. Use a deep learning model with many hidden layers.
- D. Keep the model's decision-making process a secret to protect proprietary algorithms.

Answer: A

Explanation:

The correct answer is A because ensuring responsibility and fairness in ML begins with bias detection in the training data. Including a balanced representation of all demographics ensures the model learns fairly across different groups, which is critical in regulated industries like finance.

From AWS documentation:

"A key principle of responsible AI is building models that do not propagate or amplify bias. Fairness begins with training data. Reviewing and augmenting data for representation is essential." Explanation of other options:

B. The number of hidden layers doesn't inherently improve fairness or responsibility.

C. Keeping decisions opaque violates explainability principles in responsible AI.

D. A static dataset can become outdated and may not reflect real-world shifts, which limits fairness assessment over time.

Referenced AWS AI/ML Documents and Study Guides:

Amazon SageMaker Clarify Documentation - Bias Detection and Explainability AWS Responsible AI Guidelines AWS ML Specialty Study Guide - Fairness and Governance

NEW QUESTION # 240

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

Answer: A

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 Explanation:

- * 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.

References:

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 # 241

A company wants to set up private access to Amazon Bedrock APIs from the company's AWS account. The company also wants to protect its data from internet exposure.

- A. Use Amazon CloudFront to restrict access to the company's private content
- B. Use AWS Lake Formation to manage centralized data governance and cross-account data sharing
- C. Use AWS Glue to set up data encryption across the company's data catalog
- **D. Use AWS PrivateLink to configure a private connection between the company's VPC and Amazon Bedrock**

Answer: D

Explanation:

AWS PrivateLink enables private connectivity between your VPC and supported AWS services (like Amazon Bedrock) without sending traffic over the public internet.

CloudFront (A) is for CDN and content delivery, not private service connections.

AWS Glue (B) is for ETL/data catalog, not networking.

Lake Formation (C) provides governance for data lakes, not API network isolation.

Reference:

AWS Documentation - Access Amazon Bedrock with PrivateLink

NEW QUESTION # 242

Which component of Amazon Bedrock Studio can help secure the content that AI systems generate?

- A. Function calling
- B. Access controls
- **C. Guardrails**
- D. Knowledge bases

Answer: C

NEW QUESTION # 243

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