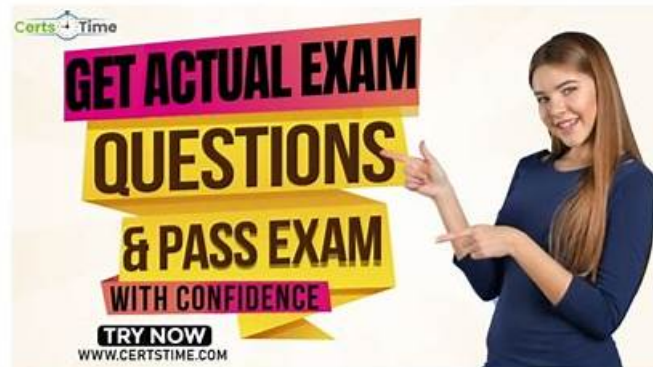


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## Amazon AIF-C01 Exam Syllabus Topics:

| Topic   | Details                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topic 1 | <ul style="list-style-type: none"><li>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.</li></ul> |

|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topic 2 | <ul style="list-style-type: none"> <li>• <b>Fundamentals of AI and ML:</b> 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.</li> </ul>                                                                                                         |
| Topic 3 | <ul style="list-style-type: none"> <li>• <b>Fundamentals of Generative AI:</b> 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.</li> </ul>                                                                             |
| Topic 4 | <ul style="list-style-type: none"> <li>• <b>Applications of Foundation Models:</b> 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.</li> </ul>                                    |
| Topic 5 | <ul style="list-style-type: none"> <li>• <b>Security, Compliance, and Governance for AI Solutions:</b> 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.</li> </ul> |

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## Amazon AWS Certified AI Practitioner Sample Questions (Q250-Q255):

### NEW QUESTION # 250

A company needs to use Amazon SageMaker AI for model training and inference. The company must comply with regulatory requirements to run SageMaker jobs in an isolated environment without internet access.

Which solution will meet these requirements?

- **A. Run SageMaker training and inference by using network isolation.**
- B. Associate appropriate AWS Identity and Access Management (IAM) roles with the SageMaker jobs.
- C. Run SageMaker training and inference by using SageMaker Experiments.
- D. Encrypt the data at rest by using encryption for SageMaker geospatial capabilities.

**Answer: A**

Explanation:

Network isolation is a key security feature for SageMaker. It ensures that training and inference jobs run in a VPC and are not accessible from the internet. Per the official SageMaker documentation:

Explanation:

Network isolation is a key security feature for SageMaker. It ensures that training and inference jobs run in a VPC and are not accessible from the internet. Per the official SageMaker documentation:

"When you enable network isolation, your model can't make any outbound network calls. This is useful for security and regulatory compliance when working with sensitive data."

### NEW QUESTION # 251

A company has built a solution by using generative AI. The solution uses large language models (LLMs) to translate training manuals from English into other languages. The company wants to evaluate the accuracy of the solution by examining the text generated for the manuals.

Which model evaluation strategy meets these requirements?

- A. Recall-Oriented Understudy for Gisting Evaluation (ROUGE)
- **B. Bilingual Evaluation Understudy (BLEU)**
- C. F1 score
- D. Root mean squared error (RMSE)

**Answer: B**

#### NEW QUESTION # 252

A company wants to use AI to protect its application from threats. The AI solution needs to check if an IP address is from a suspicious source.

- **A. Develop an anomaly detection system**
- B. Create a fraud forecasting system
- C. Build a speech recognition system
- D. Create a natural language processing (NLP) named entity recognition system

**Answer: A**

Explanation:

Comprehensive and Detailed

Anomaly detection identifies unusual behavior (such as suspicious IP traffic) compared to normal baselines.

Speech recognition (A) is irrelevant.

NER in NLP (B) extracts entities from text, not detect malicious IPs.

Fraud forecasting (D) predicts fraudulent transactions but not directly suspicious IP activity.

Reference:

AWS Documentation - Anomaly Detection

#### NEW QUESTION # 253

A hospital wants to use a generative AI solution with speech-to-text functionality to help improve employee skills in dictating clinical notes.

- **A. AWS HealthScribe**
- B. Amazon Q Developer
- C. Amazon Rekognition
- D. Amazon Polly

**Answer: A**

Explanation:

Comprehensive and Detailed

AWS HealthScribe provides speech-to-text and medical documentation generation, specifically designed for healthcare applications.

Amazon Polly is text-to-speech, not speech-to-text.

Amazon Rekognition is computer vision.

Amazon Q Developer is a generative AI assistant for developers, not healthcare.

Reference:

AWS Documentation - AWS HealthScribe

#### NEW QUESTION # 254

A social media company wants to use a large language model (LLM) for content moderation. The company wants to evaluate the LLM outputs for bias and potential discrimination against specific groups or individuals.

Which data source should the company use to evaluate the LLM outputs with the LEAST administrative effort?

- A. User-generated content
- B. Content moderation guidelines
- C. Moderation logs
- **D. Benchmark datasets**

**Answer: D**

Explanation:

Benchmark datasets are pre-validated datasets specifically designed to evaluate machine learning models for bias, fairness, and potential discrimination. These datasets are the most efficient tool for assessing an LLM's performance against known standards with minimal administrative effort.

Option D (Correct): "Benchmark datasets": This is the correct answer because using standardized benchmark datasets allows the company to evaluate model outputs for bias with minimal administrative overhead.

Option A: "User-generated content" is incorrect because it is unstructured and would require significant effort to analyze for bias.

Option B: "Moderation logs" is incorrect because they represent historical data and do not provide a standardized basis for evaluating bias.

Option C: "Content moderation guidelines" is incorrect because they provide qualitative criteria rather than a quantitative basis for evaluation.

## AWS AI Practitioner Reference:

Evaluating AI Models for Bias on AWS: AWS supports using benchmark datasets to assess model fairness and detect potential bias efficiently.

**NEW QUESTION # 255**

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