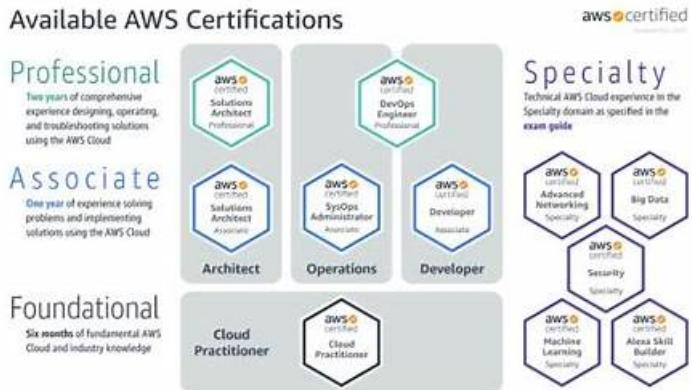


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Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">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.
Topic 2	<ul style="list-style-type: none">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 3	<ul style="list-style-type: none">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 4	<ul style="list-style-type: none">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 5	<ul style="list-style-type: none">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.

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Amazon AWS Certified AI Practitioner Sample Questions (Q188-Q193):

NEW QUESTION # 188

A company is testing the security of a foundation model (FM). During testing, the company wants to get around the safety features and make harmful content.

- A. Fuzzing training data to find vulnerabilities
- **B. Jailbreak**
- C. Denial of service (DoS)
- D. Penetration testing with authorization

Answer: B

Explanation:

Comprehensive and Detailed

Jailbreaking an LLM refers to deliberately crafting prompts to bypass its safety guardrails and produce restricted or harmful content.

Fuzzing is input testing for software.

DoS is a service availability attack.

Pen testing (C) is allowed with AWS authorization but doesn't describe bypassing model safeguards.

Reference:

AWS Responsible AI - Prompt Injection and Jailbreak Risks

NEW QUESTION # 189

A company is developing an ML model to predict heart disease risk. The model uses patient data, such as age, cholesterol, blood pressure, smoking status, and exercise habits. The dataset includes a target value that indicates whether a patient has heart disease. Which ML technique will meet these requirements?

- A. Reinforcement learning
- **B. Supervised learning**
- C. Semi-supervised learning
- D. Unsupervised learning

Answer: B

Explanation:

This scenario describes a classic supervised learning problem. Supervised learning involves training a model on a labeled dataset where the correct output (also called the target variable or ground truth) is already known.

In this case, the company has a dataset containing features such as age, cholesterol, and exercise habits, and a label indicating whether a patient has heart disease or not. This matches the definition of a binary classification task, which is a type of supervised learning. According to the AWS Machine Learning Specialty Study Guide, supervised learning is most effective when labels are available for all training examples, and the goal is to map input variables to a known output. This method enables the model to learn patterns and predict the presence or absence of heart disease. By contrast, unsupervised learning is used when labels are not available, and reinforcement learning involves agents learning via rewards and punishments, which is not applicable here. Semi-supervised learning is used when only some data is labeled.

Referenced AWS AI/ML Documents and Study Guides:

AWS Certified Machine Learning Specialty Guide - Supervised vs. Unsupervised Learning Amazon SageMaker Documentation - Classification Models

NEW QUESTION # 190

A company wants to build an interactive application for children that generates new stories based on classic stories. The company wants to use Amazon Bedrock and needs to ensure that the results and topics are appropriate for children.

Which AWS service or feature will meet these requirements?

- A. Amazon Rekognition
- B. Amazon Bedrock playgrounds
- C. Guardrails for Amazon Bedrock
- D. Agents for Amazon Bedrock

Answer: C

NEW QUESTION # 191

A financial company is developing a fraud detection system that flags potential fraud cases in credit card transactions. Employees will evaluate the flagged fraud cases. The company wants to minimize the amount of time the employees spend reviewing flagged fraud cases that are not actually fraudulent.

Which evaluation metric meets these requirements?

- A. Precision
- B. Lift chart
- C. Recall
- D. Accuracy

Answer: A

Explanation:

Precision is the metric that measures the proportion of true positives (actual frauds) among all flagged positives (flagged frauds). High precision ensures that most of the flagged cases are truly fraudulent, minimizing the number of false positives employees must review. C is correct:

"Precision is the ratio of true positives to all predicted positives, and it answers: 'Of all the cases flagged as fraud, how many were actually fraud?' High precision means fewer non-fraudulent cases are sent for manual review." (Reference: AWS ML Concepts - Precision and Recall, AWS Certified AI Practitioner Study Guide)

"Precision is the ratio of true positives to all predicted positives, and it answers: 'Of all the cases flagged as fraud, how many were actually fraud?' High precision means fewer non-fraudulent cases are sent for manual review." (Reference: AWS ML Concepts - Precision and Recall, AWS Certified AI Practitioner Study Guide) A (Recall) measures how many actual frauds are caught, but does not minimize false positives.

B (Accuracy) can be misleading in imbalanced datasets (like fraud detection).

NEW QUESTION # 192

Which prompting attack directly exposes the configured behavior of a large language model (LLM)?

- A. Extracting the prompt template
- B. Prompted persona switches
- C. Ignoring the prompt template
- D. Exploiting friendliness and trust

Answer: A

Explanation:

Comprehensive and Detailed

A prompt template defines how the model is structured and guided (system prompts, roles, guardrails).

An attack that reveals or leaks this prompt template is known as a prompt extraction attack.

The other options (persona switching, exploiting friendliness, ignoring prompts) describe adversarial techniques but do not directly expose the internal configured behavior.

Reference:

AWS Responsible AI - Prompt Injection & Extraction Attacks

NEW QUESTION # 193

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