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Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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 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.

Amazon AWS Certified AI Practitioner Sample Questions (Q341-Q346):

NEW QUESTION # 341

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

Answer: B

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 # 342

A company is using a generative AI model to develop a digital assistant. The model's responses occasionally include undesirable and potentially harmful content. Select the correct Amazon Bedrock filter policy from the following list for each mitigation action. Each filter policy should be selected one time. (Select FOUR.)

- * Content filters
- * Contextual grounding check
- * Denied topics
- * Word filters

Answer:

Explanation:

Reference:

AWS Bedrock User Guide: Guardrails for Responsible AI (<https://docs.aws.amazon.com/bedrock/latest/userguide/guardrails.html>)
AWS AI Practitioner Learning Path: Module on Responsible AI and Model Safety Amazon Bedrock Developer Guide: Configuring Guardrails (<https://aws.amazon.com/bedrock/>)

NEW QUESTION # 343

An AI practitioner has built a deep learning model to classify the types of materials in images. The AI practitioner now wants to measure the model performance.

Which metric will help the AI practitioner evaluate the performance of the model?

- A. R2 score
- B. **Confusion matrix**
- C. Correlation matrix
- D. Mean squared error (MSE)

Answer: B

Explanation:

A confusion matrix is the correct metric for evaluating the performance of a classification model, such as the deep learning model built to classify types of materials in images.

* Confusion Matrix:

* It is a table used to describe the performance of a classification model by comparing the actual and predicted classifications.

* Provides detailed insights into the model's performance, including true positives, true negatives, false positives, and false negatives.

* Why Option A is Correct:

* Performance Measurement: Helps measure various performance metrics like accuracy, precision, recall, and F1-score, which are critical for evaluating a classification model.

* Comprehensive Evaluation: Allows for a thorough analysis of where the model is making errors and the types of errors being made.

* Why Other Options are Incorrect:

* B. Correlation matrix: Used to identify relationships between variables, not for evaluating classification performance.

* C. R2 score: Used for regression models, not classification.

* D. Mean squared error (MSE): Also a metric for regression, measuring the average of the squares of the errors.

NEW QUESTION # 344

An AI practitioner has trained a model on a training dataset. The model performs well on the training data. However, the model does not perform well on evaluation data. What is the MOST likely cause of this issue?

- A. The model requires prompt engineering.
- B. The model is biased.
- C. **The model is overfit.**
- D. The model is underfit.

Answer: C

Explanation:

When a model performs well on training data but poorly on evaluation/test data, it indicates overfitting.

* Overfitting: The model memorizes the training data patterns instead of generalizing.

* Underfitting (A) means the model performs poorly on both training and test data.

* Bias (C) refers to systemic errors in predictions, not this training/test mismatch.

* Prompt engineering (B) applies to generative AI, not general ML training models.

Reference:

AWS ML Glossary - Overfitting and Underfitting

NEW QUESTION # 345

A hospital is developing an AI system to assist doctors in diagnosing diseases based on patient records and medical images. To comply with regulations, the sensitive patient data must not leave the country the data is located in.

Which data governance strategy will ensure compliance and protect patient privacy?

- A. Data enrichment
- **B. Data residency**
- C. Data discoverability
- D. Data quality

Answer: B

Explanation:

Data residency is the principle and practice of ensuring that data remains within a specific geographic location or jurisdiction, often to comply with local regulations and privacy laws (such as HIPAA, GDPR, or national healthcare laws). Data residency policies prevent sensitive data (such as patient records) from being transferred or accessed outside the designated country, thus protecting privacy and ensuring regulatory compliance.

* A is correct:

"Data residency refers to where data is stored geographically, and often organizations need to ensure that certain data does not leave a particular country or region to comply with legal or regulatory requirements." (Reference: AWS Data Residency Whitepaper, AWS Responsible AI & Data Privacy)

* B (data quality) refers to the accuracy and reliability of data, not its location.

* C (data discoverability) is about being able to find and access data, not restricting its movement.

* D (data enrichment) is about enhancing data with additional information

"Maintaining data residency is critical in healthcare and regulated industries to ensure data does not leave the prescribed jurisdiction." (Reference: AWS Data Residency)

NEW QUESTION # 346

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