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ISACA AAIA Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Auditing Tools and Techniques: This section of the exam measures the skills of AI auditors and centers on auditing AI systems using appropriate tools and methods. It includes audit planning and design, sampling methodologies specific to AI, collecting audit evidence, using data analytics for quality assurance, and producing AI audit outputs and reports, including follow-up and quality control measures.
Topic 2	<ul style="list-style-type: none">AI Operations: It covers managing AI-specific data needs—including collection, quality, security, and classification—applying development lifecycle methodologies with privacy and security by design, change and incident management, testing AI solutions, identifying AI-related threats and vulnerabilities, and supervising AI deployments.
Topic 3	<ul style="list-style-type: none">AI GOVERNANCE AND RISK: It encompasses understanding different AI models and their life cycles, guiding AI strategy, defining roles and policies, managing AI-related risks, overseeing data privacy and governance, and ensuring adherence to ethical practices, standards, and regulations.

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ISACA Advanced in AI Audit Sample Questions (Q96-Q101):

NEW QUESTION # 96

A healthcare organization uses data clustering to group patients by medical history for personalized treatment recommendations. Which of the following is the GREATEST privacy risk associated with this practice?

- A. Clusters can reveal sensitive personal information depending on how the information is presented.
- B. The clustering requires more data, increasing the risk of a privacy breach.
- C. Clustering increases the complexity of the model, making data harder to anonymize.
- D. Irrelevant features in the data may result in inaccurate or biased treatments.

Answer: A

NEW QUESTION # 97

Which metric should an IS auditor review to evaluate issues with data collection that could impact AI model training?

- A. Percentage of epochs used
- B. Percentage of missing values
- C. Percentage of true positives on confusion matrix
- D. Percentage of data in training dataset

Answer: B

Explanation:

The percentage of missing values (option B) directly reflects data collection issues. Missing or incomplete data can degrade model performance, distort feature distributions, and create biased or inaccurate predictions.

AAIA stresses that auditors must evaluate:

- * Completeness
- * Validity
- * Accuracy
- * Consistency

Missing values signal failures in upstream processes, including sensors, user inputs, integrations, or data pipelines.

The other metrics are unrelated to raw data integrity:

- * Epochs (A) refer to training cycles.
- * Percentage of training data (C) concerns dataset partitioning, not quality.
- * True positives (D) relate to model performance, not data collection quality.

References:

AAIA Domain 2: Data Quality, Completeness, and Integrity

AAIA Domain 3: Pre-Training Data Validation

NEW QUESTION # 98

While evaluating a complex machine learning (ML) model used for regulatory compliance in a financial institution, which of the following should the IS auditor do to BEST ensure transparency?

- A. Provide periodic model audit reports.
- B. Document sources and data processes.
- C. Create dashboards to show outputs.
- D. Use tools that explain model decisions.

Answer: D

Explanation:

Transparency in AI, especially in regulated sectors like finance, is best achieved by using explainability tools that interpret the internal workings and outputs of complex ML models. The AAIA™ Study Guide highlights model explainability as essential for both auditors and regulators to understand why certain decisions are made.

"Explainability tools allow auditors to trace predictions back to input features, helping verify fairness, logic, and compliance. These tools support transparency and trustworthiness in black-box models." While documentation (A) and reporting (C) are part of governance, D directly supports decision-level clarity.

Dashboards (B) show results, not rationale.

Reference: ISACA Advanced in AI Audit™ (AAIA™) Study Guide, Section: "AI in Audit Processes," Subsection: "Model Explainability and Regulatory Assurance"

NEW QUESTION # 99

When auditing the transparency of an AI system, which of the following would be the MOST effective way to understand the model's decision-making process?

- A. Analyzing the complexity of the algorithms used
- B. Evaluating the diversity of the training data set
- **C. Reviewing the explainability of AI outputs**
- D. Assessing the computational cost of the model

Answer: C

Explanation:

Transparency in AI systems is a key requirement to ensure trust, accountability, and ethical compliance.

According to the ISACA AAIA™ Study Guide under the "AI Governance and Risk Management" section, understanding the decision-making process of an AI system falls under the principle of explainability.

Explainability refers to the degree to which an observer can understand the internal mechanics of an AI system and the rationale behind its outputs.

"Reviewing the explainability of AI outputs allows auditors and stakeholders to determine whether model decisions are interpretable and justifiable. High transparency means stakeholders can trace how and why a decision was made." While algorithm complexity and computational cost are technical considerations, they do not directly facilitate the audit of decision-making transparency.

Similarly, training data diversity is essential for bias reduction but does not explain how decisions are derived. Therefore, option D is the most aligned with auditing transparency.

Reference: ISACA Advanced in AI Audit™ (AAIA™) Study Guide, Section: "AI Governance and Risk Management," Subsection: "Transparency and Explainability"

NEW QUESTION # 100

Which of the following is the PRIMARY objective of performing adversarial testing on AI models?

- A. Validating AI incident response plans
- B. Fostering security awareness
- **C. Identifying control gaps**
- D. Determining key risk indicators (KRIs)

Answer: C

Explanation:

Adversarial testing involves simulating real-world attacks or malicious inputs against AI models (e.g., adversarial examples, poisoning, evasion) to identify how the system behaves under intentional misuse or hostile conditions. The primary objective is to discover weaknesses and control gaps (D) in the model and its surrounding processes—such as inadequate input validation, insufficient monitoring, or missing safeguards against adversarial inputs.

While results from adversarial testing may inform incident response planning (A), KRI definition (B), or security awareness (C), those are secondary benefits. AAIA's coverage of AI threats and vulnerabilities emphasizes adversarial testing as a control validation and gap-identification mechanism, directly addressing AI-specific risk exposure.

References:

ISACA,AAIA Exam Content Outline- Domain 1 and Domain 2: Threats and Vulnerabilities Specific to AI; Testing Techniques for AI Solutions.

ISACA guidance on adversarial testing and AI security posture assessment.

NEW QUESTION # 101

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