

100% Pass Quiz ISACA - Authoritative AAIA - ISACA Advanced in AI Audit Pass Test



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ISACA AAIA Exam Syllabus Topics:

Topic	Details
Topic 1	<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.
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">• 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.

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ISACA Advanced in AI Audit Sample Questions (Q164-Q169):

NEW QUESTION # 164

A healthcare organization uses patient data to train an AI model for early disease detection. Which of the following practices provides the BEST assurance that personal data is secure and its integrity is maintained?

- A. Encrypting stored data to reduce exposure and log access
- B. Updating the AI model with new data and tracking changes
- C. Implementing strict data access controls and conducting security tests
- **D. Anonymizing patient data and performing regular quality checks**

Answer: D

NEW QUESTION # 165

An organization plans to share customer data collected through an AI system with third-party vendors. Which of the following BEST demonstrates compliance with data privacy principles?

- A. Including a statement about AI data sharing practices in the company's privacy policy
- B. Communicating to customers about AI data sharing practices
- **C. Obtaining expressed consent from customers before sharing their data**
- D. Ensuring vendors implement adequate technical safeguards for data protection

Answer: C

Explanation:

The strongest demonstration of compliance with privacy principles—especially those emphasized in AAIA, such as lawfulness, transparency, and consent—is obtaining expressed customer consent (B) before sharing data with third parties. Consent ensures that data processing aligns with legal and ethical requirements, reducing risks related to regulatory violations, unauthorized processing, and loss of customer trust.

Option A and C relate only to disclosure and transparency, which are necessary but insufficient. Option D concerns vendor security controls, which are important but do not address the legal basis for sharing data.

Explicit, informed consent is the highest standard of compliance for third-party data sharing.

References:

ISACA, AAIA Exam Content Outline- Domain 5: Legal Requirements and Data Privacy in AI.

ISACA data governance guidance on lawful basis and consent.

NEW QUESTION # 166

Which of the following should be an IS auditor's GREATEST concern if class imbalance is identified in training data for an AI model?

- A. Model overfitting
- B. Data quality
- C. Data drift
- **D. Model bias**

Answer: D

Explanation:

Class imbalance occurs when one or more classes are underrepresented in the training data. The GREATEST concern is model bias (C): the model may learn to favor the majority class, leading to poor performance and unfair treatment for minority classes. In high-stakes applications (e.g., fraud detection, credit scoring, medical diagnosis), this can translate into systematic discrimination or

incorrect decisions. AAIA highlights class imbalance as a common source of bias and stresses mitigation techniques (resampling, reweighting, threshold adjustments).

Data drift (A) refers to changes in data distributions over time-related but distinct. Data quality (B) is broader and may or may not be affected by imbalance. Overfitting (D) is a risk, but class imbalance more directly raises fairness and representativeness concerns rather than overfitting alone. Thus, bias arising from class imbalance is the auditor's primary concern.

References:

ISACA, AAIA Exam Content Outline- Domain 2: Data Management Specific to AI (data balancing, bias risk).

ISACA AI ethics and model risk guidance discussing class imbalance and fairness.

NEW QUESTION # 167

An IS auditor is testing an AI model used for determining insurance premiums and eligibility. Which of the following is the MOST effective testing method to identify bias in algorithm outputs?

- A. Predictive analytics
- B. Cross-cluster analysis
- C. Regression testing
- **D. Disparate impact analysis**

Answer: D

Explanation:

Disparate impact analysis is a specific technique used to detect whether model decisions disproportionately disadvantage certain protected or sensitive groups (e.g., by gender, age, ethnicity, or other attributes). For an AI model determining premiums and eligibility, fairness and non-discrimination are critical regulatory and ethical requirements, and AAIA content highlights fairness and bias evaluation as core elements of AI governance and risk management.

Regression testing (A) checks that changes do not introduce defects in previously functioning components, not fairness. Cross-cluster analysis (B) may reveal patterns but is not inherently a fairness test. Predictive analytics (D) is a broad term for forward-looking analysis, not a method specifically designed to detect bias.

Therefore, disparate impact analysis is the most appropriate and targeted method to identify bias in the insurance AI model's outputs.

References:

ISACA, AAIA Exam Content Outline- Domain 1: AI Governance and Risk (bias, fairness, and transparency considerations).

ISACA AI ethics and fairness guidance used in AAIA training materials.

NEW QUESTION # 168

An organization is developing an AI system that integrates data from multiple external sources without clearly defined data ownership policies. Which of the following is the GREATEST concern in this situation?

- A. Limited documentation of user access permissions
- **B. Gaps in AI privacy compliance and accountability**
- C. Excessive dependence on automated data collection and cleansing
- D. Deficiencies in policies and procedures validating AI model accuracy

Answer: B

Explanation:

When integrating data from multiple external sources, unclear data ownership directly affects accountability for privacy, consent, retention, and lawful processing. This creates gaps in AI privacy compliance and accountability (option B), which is the greatest concern because violations can lead to regulatory sanctions, litigation, and serious reputational damage. AAIA's governance and risk domain emphasizes privacy and data governance programs, including clear roles, responsibilities, and ownership.

Option A is important but relates more to accuracy and performance validation, not the foundational legal and accountability issues.

Option B (access permissions) is a control issue but usually easier to remediate once ownership and responsibilities are clarified.

Option C (dependence on automated data collection/cleansing) can introduce quality risks but does not directly resolve or define who is accountable. Thus, the primary risk is the lack of clear privacy and accountability structures across external data sources.

References:

ISACA, AAIA Exam Content Outline- Domain 1: Privacy and Data Governance Programs (data governance, privacy considerations).

ISACA guidance on AI governance, roles, responsibilities, and accountability for data use.

NEW QUESTION # 169

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