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Title : ISACA Advanced in AI Audit (AAIA)

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ISACA AAIA Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 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 (Q77-Q82):

NEW QUESTION # 77

An IS auditor is assessing the implementation of AI tools for evidence collection involving multiple data sources. Which of the following outcomes BEST indicates that AI-driven evidence collection has improved the audit process?

- A. Extended reporting timelines that allow for AI model retraining
- B. Ability to rely on unstructured data with minimal cleansing
- C. Reduced time spent gathering data with fewer errors in evidence compilation
- D. Elimination of human judgment in data and evidence analysis

Answer: C

Explanation:

AI-driven evidence collection should enhance efficiency and accuracy. The BEST indicator of improvement is reduced time spent gathering data with fewer errors (B), showing that AI has streamlined data extraction, consolidation, and initial validation without compromising quality. AAIA's content on AI in audit processes highlights benefits such as automation of repetitive tasks, improved coverage, and higher-quality evidence.

Extended timelines for retraining (A) suggest inefficiency rather than improvement. Eliminating human judgment (C) is neither realistic nor recommended; professional skepticism and auditor judgment remain essential. Relying on unstructured data with minimal cleansing (D) can increase risk of misinterpretation or noise. Therefore, more efficient and accurate evidence compilation is the clearest positive outcome.

References:

ISACA, AAIA Exam Content Outline- Domain 3: AI Auditing Tools and Techniques (efficiency and quality improvements in audit).
ISACA internal audit and data analytics guidance on AI's value in evidence collection.

NEW QUESTION # 78

An organization uses an AI-powered tool to detect and respond to cybersecurity threats in real time. An IS auditor finds that the tool produces excessive false positives, increasing the workload of the security team.

Which of the following techniques should the auditor recommend to BEST evaluate the tool's effectiveness in managing this issue?

- A. Deploy a machine learning (ML) validation tool to increase the model's accuracy and performance.
- B. Conduct penetration testing to assess the system's ability to detect genuine threats.
- C. Use a log analysis tool to examine the types and frequency of alerts generated.
- D. Implement a benchmarking tool to compare the system's alerting capability with industry standards.

Answer: A

Explanation:

The AAIA™ Study Guide recommends using validation tools to fine-tune and evaluate ML models, particularly when high false positives undermine operational efficiency. ML validation can identify threshold adjustments, retraining needs, or feature misweighting contributing to excessive alerting.

"Model validation enables organizations to quantify performance, reduce false alarms, and recalibrate AI behavior to align with operational needs and threat landscapes." While logs (A) and benchmarks (B) help with diagnosis, they don't improve the model.

Penetration testing (C) evaluates detection, not alert noise. D is the most effective solution.

Reference: ISACA Advanced in AI Audit™ (AAIA™) Study Guide, Section: "AI Operations and Performance," Subsection: "Model Tuning and False Positive Mitigation"

NEW QUESTION # 79

An IS auditor finds that an AI model's outputs are not being reviewed. Which of the following would BEST address this risk?

- A. A validation process for AI decisions
- B. Prompt templates
- C. A larger training dataset
- D. Regular AI model retraining

Answer: A

Explanation:

When AI outputs are not being reviewed, the primary concern is that incorrect, biased, or non-compliant decisions may go undetected. The best way to address this risk is to implement a validation process for AI decisions (B), which may include human-in-the-loop checks, sampling-based reviews, escalation criteria, and formal approval workflows. AAIA emphasizes the importance of supervision and validation of AI outputs, particularly where decisions have financial, legal, or safety implications.

A larger training dataset (A) does not guarantee correctness or fairness and does not replace oversight.

Regular retraining (C) can be beneficial but can also propagate errors if not validated. Prompt templates (D) are relevant mainly for generative and prompt-based systems, and they do not constitute systematic review of outputs. Therefore, a structured validation process is the most direct and effective control.

References:

ISACA, AAIA Exam Content Outline- Domain 2: AI Operations (Supervision of AI Solutions).

ISACA audit guidance on AI decision validation and human oversight.

NEW QUESTION # 80

Which of the following is the MOST effective way an IS auditor could use generative AI to plan an audit of a new database storing transactional data?

- A. Developing architecture diagrams
- B. Identifying technology-specific risk and considerations
- C. Identifying separation of duties conflicts for database data changes
- D. Summarizing meeting transcripts from interviews with database administrators (DBAs)

Answer: B

NEW QUESTION # 81

Which of the following is MOST important for an IS auditor to review during an AI system audit in order to determine compliance with intellectual property and data rights?

- A. Use of open-source intellectual property
- B. Data performance metrics
- C. Model runtime efficiency logs
- D. Data usage agreements

Answer: D

Explanation:

To assess compliance with intellectual property (IP) and data rights, the IS auditor must review documented data usage agreements that specify ownership, licensing, consent, and limitations of use. The AAIA™ Study Guide underscores the importance of verifying that the data used to train or feed AI models is obtained and utilized within legal and contractual boundaries.

"Auditors must review data usage agreements to validate whether the organization has appropriate rights to use, distribute, or transform data inputs, especially where third-party or sensitive data is involved." While open-source usage (C) is a concern, only B provides legal clarity. Metrics (A) and logs (D) reflect performance-not legal compliance.

Reference: ISACA Advanced in AI Audit™ (AAIA™) Study Guide, Section: "Ethical and Legal Considerations in AI," Subsection: "Data Rights, Licensing, and Intellectual Property"

NEW QUESTION # 82

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