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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.

ISACA Advanced in AI Audit Sample Questions (Q38-Q43):

NEW QUESTION # 38

An organization shares an AI model with external partners. One partner reports that sensitive data has been inadvertently exposed through the model's outputs. Which of the following is the IS auditor's BEST recommendation?

- A. Disable the shared model and notify partners of the potential breach.
- B. Retrain the model immediately and implement privacy-preserving techniques.
- C. Audit the data pipelines of all partners to identify the source of the leak.
- D. Limit the model's outputs to anonymized results while investigating further.

Answer: A

Explanation:

In the case of a potential data exposure through AI model outputs, the first and most responsible action from an auditing and risk standpoint is to halt further risk propagation. According to the AAIA™ Study Guide, immediate containment is vital, especially when regulatory and reputational risks are high.

"Upon detection of a data breach risk, AI models should be immediately disabled from public or partner use, and all relevant parties should be notified as part of a responsible disclosure and containment strategy." While options A and D are longer-term remediation steps and B is investigative, none of them provide the urgent containment that is best practice in such a breach context.

Reference: ISACA Advanced in AI Audit™ (AAIA™) Study Guide, Section: "Ethical and Legal Considerations in AI," Subsection: "AI Data Breach and Disclosure Management"

NEW QUESTION # 39

Which of the following is the GREATEST challenge facing IS auditors evaluating the explainability of generative AI models?

- A. Algorithms changing as AI continues to learn
- B. Difficulties in preventing the input of biased data
- C. Differences of opinion regarding model types
- D. Performance issues due to excessive computation

Answer: A

Explanation:

The greatest challenge for IS auditors in evaluating the explainability of generative AI models is the changing nature of algorithms as AI continues to learn (option D). Generative AI models, especially those using advanced techniques like deep learning and reinforcement learning, often employ continuous or dynamic learning, which results in models that evolve over time. This adaptability can significantly hinder explainability because the logic, parameters, or decision pathways may shift with ongoing retraining or real-time learning.

The ISACA Advanced in AI Audit™ (AAIA™) Study Guide stresses that: "Continually learning AI systems present unique audit challenges, as their internal representations and reasoning can change after deployment, making it difficult to fully capture and explain the rationale for outputs at any given point." Other options, such as bias in input data or computational performance, are significant but do not pose as fundamental a challenge to explainability as a model whose internal workings can dynamically change.

Reference: ISACA Advanced in AI Audit™ (AAIA™) Study Guide, Section: "AI Explainability and Dynamic Models"

NEW QUESTION # 40

Which of the following is the PRIMARY reason IS auditors must be aware that generative AI may return different investment recommendations from the same set of data?

- A. Limitations can arise in the quantification of risk profiles.
- B. Servers are reconfigured periodically.
- C. Computational logic is based on probabilities.
- D. Neural node access varies each time the process is executed.

Answer: C

NEW QUESTION # 41

Which of the following techniques would be MOST effective as part of incident management procedures for a prompt injection attack?

- A. Monitor the prompts for excessive special characters.
- B. Fine-tune the AI model.
- C. Scan inputs for code-like structure of text.
- D. Deploy input validation to sanitize abuse prompts.

Answer: D

Explanation:

Prompt injection attacks involve maliciously crafted inputs intended to override system instructions, exfiltrate data, or cause harmful behavior. The most effective control aligned with incident management is to deploy robust input validation and sanitization (C), which includes rules and filters designed to detect and neutralize potentially malicious content before it reaches the model. AAIA's coverage of AI threats and vulnerabilities highlights the importance of input validation and secure prompt handling for generative AI systems. Fine-tuning the model (A) is a long-term adaptation, not an immediate incident control. Scanning for code-like structure (B) or excessive special characters (D) may catch some attacks but are too narrow; many prompt injections use natural language. Comprehensive input validation and sanitization is the most effective and generalizable incident management response.

References:

ISACA, AAIA Exam Content Outline- Domain 5: Ethical and Legal Considerations in AI; AI-specific threats and incident management.

ISACA AI security guidance covering prompt injection and input validation controls.

NEW QUESTION # 42

An IS auditor is reviewing a dataset used by a university to train a predictive machine learning model. Which of the following MOST likely indicates risk that the model could not process all data and make necessary correlations?

- A. Grade Level field in float format
- B. Having an undergraduate degree in Boolean format
- C. Student Number field in integer format
- D. Final Grade Percent field in object format

Answer: D

Explanation:

A numeric field stored as an object (string) format (option C) indicates improper data typing. Models cannot correctly compute correlations or statistical relationships when numerical values are stored as textual data.

AAIA emphasizes that incorrect datatypes are one of the most common causes of ML model misbehavior, including:

- * Failure to compute averages, correlations, or mathematical operations
- * Silent errors in preprocessing
- * Skewed learning patterns

* Incorrect feature importance evaluations

Thus, the Final Grade Percent field in object format is the most significant indicator of processing risk. Options A, B, and D are valid datatypes for their respective fields and pose no inherent model processing risk.

References:

AAIA Domain 2: Data Quality, Data Types, and Preprocessing.

NEW QUESTION # 43

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