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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 (Q139-Q144):

NEW QUESTION # 139

When auditing an AI system, which of the following steps ensures that AI model behavior is aligned with organizational objectives?

- A. Algorithm debugging
- B. Data transformation
- C. Problem framing
- D. Model training

Answer: C

NEW QUESTION # 140

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

Answer: A

NEW QUESTION # 141

After AI training data has been tested for biases, which of the following is MOST important to check to validate the effectiveness of the testing?

- A. AI processes will meet expected service turnaround time
- B. Feedback on data validation is obtained from key stakeholders
- C. Sensitive information from users is securely masked before input
- D. Possible impacts from AI outputs remain within the acceptable risk level

Answer: D

Explanation:

Even after identifying and mitigating bias, organizations must ensure that AI outputs do not create unacceptable risks.

AAIA emphasizes that bias mitigation must result in:

- * Fair outcomes
- * Justifiable predictions
- * No disproportionate harm to any demographic group
- * Alignment with organizational risk tolerance

Option B reflects this requirement, ensuring that the model's real-world impact aligns with documented risk thresholds.

Option A is supportive but not validation of effectiveness.

Option C is performance-related, not fairness-related.

Option D is privacy-related, not bias-related.

Thus, confirming output impacts against risk tolerance is the most important validation step.

References:

AAIA Domain 5: Ethical AI, Fairness Validation

AAIA Domain 1: Risk Governance and Threshold Assessments

NEW QUESTION # 142

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

Answer: A

Explanation:

Generative AI systems, particularly those based on transformer models, produce outputs using probabilistic computations. As a result, even when given the same input data, these models may generate different outputs depending on sampling strategies (e.g., temperature, top-k sampling).

"Generative AI operates probabilistically, meaning that outputs can vary with each run based on stochastic sampling techniques. This variability is expected and must be accounted for in risk-sensitive environments like finance." While A and B refer to limitations and architecture, and D is unrelated to logic, C directly explains the output inconsistency.

Reference: ISACA Advanced in AI Audit™ (AAIA™) Study Guide, Section: "AI Fundamentals and Technologies," Subsection: "Stochastic Behavior in Generative Models"

NEW QUESTION # 143

An organization deploys an AI recruitment platform to screen job applicants. The IS auditor identifies that the platform's decisions may be influenced by model bias. Which of the following risk mitigation strategies is BEST for the auditor to recommend?

- A. Require manual reviews of all AI-generated recruitment decisions before hiring is finalized.
- B. Suspend the use of the AI system until the training data can be verified for fairness and compliance.
- C. Retrain the AI model using an external data set certified for inclusivity and fairness.
- **D. Implement a process to periodically test the AI system for biases and adjust parameters as needed.**

Answer: D

Explanation:

Periodic testing and monitoring for bias is a sustainable, proactive strategy aligned with best practices outlined in the AAIA™ Study Guide. This approach ensures that the AI system remains compliant over time, even as data and hiring conditions change.

"Ongoing fairness assessments help detect emerging biases and ensure that the AI model maintains equitable decision-making standards. Periodic testing also allows organizations to take corrective action before regulatory or reputational damage occurs."

Suspending the system (B) or relying solely on external datasets (C) are temporary or limited in scope.

Manual reviews (D) are effective but do not solve the root issue. Therefore, A provides a comprehensive, audit-aligned solution.

Reference: ISACA Advanced in AI Audit™ (AAIA™) Study Guide, Section: "Ethical and Legal Considerations in AI," Subsection: "Bias Mitigation and Monitoring"

NEW QUESTION # 144

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