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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 (Q42-Q47):

NEW QUESTION # 42

A healthcare organization uses an AI model to analyze patient data and provide diagnostic recommendations. Which of the following MOST effectively detects data drift related to the model's predictions?

- **A. Comparing incoming patient data distributions with the training data set**
- B. Applying overrides to allow healthcare professionals to correct the AI model's recommendations
- C. Using adversarial testing to simulate scenarios that stress test the model's predictions
- D. Conducting periodic model retraining to ensure alignment with updated patient data

Answer: A

Explanation:

Detecting data drift is critical in maintaining the reliability and accuracy of AI models, especially in dynamic environments like healthcare where patient populations and data characteristics can change over time.

According to the ISACA Advanced in AI Audit™ (AAIA™) Study Guide, data drift refers to changes in the input data's statistical properties compared to the data on which the model was originally trained.

If not detected, data drift can degrade model performance and lead to erroneous predictions.

The most effective approach to detect data drift is to continuously compare the statistical distributions of incoming (production) data with those of the training dataset. This allows organizations to identify deviations in data patterns, which can be early indicators that the AI model's predictions may no longer be valid or optimal.

As stated in the AAIA™ Study Guide under "AI Model Monitoring and Maintenance":

"Monitoring input data for distributional changes compared to the model's training data is an essential step in identifying data drift.

Statistical tests and visualizations can help auditors and AI operators detect when the underlying data characteristics have shifted, prompting further investigation or retraining needs." While options such as retraining the model (option C) or adversarial testing (option D) are valuable for ongoing performance and robustness, they do not inherently detect data drift—they respond to or stress-test existing issues. Applying overrides (option B) is a human-in-the-loop safeguard, not a method for drift detection.

Reference: ISACA Advanced in AI Audit™ (AAIA™) Study Guide, Section: "AI Model Monitoring and Maintenance," Subsection: "Detection and Management of Data Drift"

NEW QUESTION # 43

Which of the following should be applied to an AI system but are not typically used in traditional systems?

- **A. Controls to monitor data poisoning**
- B. Controls to manage data governance
- C. Controls to protect data privacy
- D. Controls to prevent data exfiltration

Answer: A

Explanation:

AI systems face unique threats not commonly found in traditional IT environments, particularly data poisoning, where attackers manipulate training data to corrupt model behavior. Controls that specifically monitor and mitigate poisoning—such as input provenance checks, anomaly detection on training data, and integrity validation pipelines—are emphasized in AAIA's coverage of AI-specific vulnerabilities.

While privacy (A), data exfiltration (C), and data governance (D) controls are essential for all digital systems, monitoring for data poisoning is uniquely critical for AI because poisoned inputs can lead to faulty predictions, safety issues, or systemic bias. AAIA specifically highlights data poisoning as a distinct threat requiring specialized controls.

References:

ISACA, AAIA Exam Content Outline- Domain 2: Threats and Vulnerabilities Specific to AI.
ISACA AI security guidance discussing poisoning and integrity attacks.

NEW QUESTION # 44

To confirm the fairness of AI model decisions, the BEST way to collect reliable evidence during an AI audit is by:

- A. Observing the system's interactions with end users.
- **B. Testing the model with a curated sample data set.**
- C. Analyzing system metadata.
- D. Interviewing developers.

Answer: B

NEW QUESTION # 45

During audit planning, an IS auditor reviews the correlation matrix. Which variable pair from an electrical generation facility has the MOST significant correlation?

- **A. Temperature and generator effectiveness is -0.85**
- B. Daily precipitation and generator efficiency is 0.09
- C. Rotational speed and tool wear is 0.56
- D. Electricity demand and machine torque is 0.0

Answer: A

Explanation:

A correlation of -0.85 (option C) represents a strong negative correlation, indicating a meaningful inverse relationship. In AI model development, high-magnitude correlations (positive or negative) strongly influence feature selection and model behavior.

AAIA emphasizes that auditors must understand correlation strength to evaluate:

- * Feature relevance
- * Model weight justification
- * Risk of multicollinearity
- * Data quality and representativeness

The other correlations are weak or negligible.

Thus, the pair with -0.85 is the most significant.

References:

AAIA Domain 1: AI Data Relationships

AAIA Domain 2: Data Understanding and Statistical Foundations

NEW QUESTION # 46

An internal audit department notices that AI-generated audit reports are producing false conclusions. Which of the following is the BEST way to correct this issue?

- A. Decrease the model's creativity score.
- B. Update service level agreements (SLAs).
- **C. Suspend utilization of the tool until resolved.**
- D. Increase the model context.

Answer: C

Explanation:

If AI-generated audit reports contain false conclusions, the integrity of audit evidence and overall assurance is compromised.

According to AAIA, when AI systems compromise accuracy of audit outputs, the immediate step should be to suspend use (B) to prevent further incorrect or misleading reporting.

This allows auditors to:

- * Investigate the root cause of incorrect conclusions
- * Validate the model's training data, rules, and prompt structures
- * Reassess controls, safeguards, and human review processes

* Prevent reliance on unreliable AI-generated audit material

Increasing context (A) or reducing creativity (C) may help generative models but do not guarantee correction of fundamental errors.

Updating SLAs (D) is administrative and does not solve the immediate integrity issue.

References:

AAIA Domain 3: Audit Evidence, Professional Skepticism, and AI output validation.

AAIA Domain 2: Monitoring AI Outputs for Accuracy.

NEW QUESTION # 47

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