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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 (Q149-Q154):

NEW QUESTION # 149

An IS auditor notes that an AI model achieved significantly better results on training data than on test data. Which of the following problems with the model has the IS auditor identified?

- A. Bias
- **B. Overfitting**
- C. Underfitting
- D. Generalization

Answer: B

NEW QUESTION # 150

Which of the following should be of GREATEST concern to an IS auditor when reviewing ethical considerations for an AI solution?

- A. The solution is hosted on a shared cloud environment.
- B. The solution documentation is still in draft.
- C. The model has not been retrained recently.
- **D. The decision-making process is unexplainable.**

Answer: D

Explanation:

The GREATEST concern is when the AI system's decision-making process is unexplainable (A), especially for high-impact or regulated decisions. AIA stresses that explainability is essential for accountability, fairness assessments, compliance, and public trust. If decisions cannot be explained, the organization cannot validate fairness, detect bias, or justify outcomes to regulators or affected individuals.

Cloud hosting (B) is manageable through standard controls. Retraining frequency (C) affects performance but not core ethics. Draft documentation (D) is a procedural issue, not an ethical barrier. Unexplainable decision logic is the foundational ethical risk.

References:

ISACA, AIA Exam Content Outline- Domain 5: Ethical and Legal Considerations in AI (explainability, accountability).

NEW QUESTION # 151

An IS auditor is considering using a web-based AI tool to update an audit report. What should be the MOST important consideration before inputting the report?

- A. Impact on the audit budget
- **B. Compliance with organizational data protection requirements**
- C. Safeguard measures of the AI tool
- D. The AI tool alignment with organizational report formatting

Answer: B

Explanation:

The MOST important factor is compliance with organizational data protection requirements (D), because audit reports contain sensitive internal information, findings, and potential control deficiencies. Sending such content to an external AI tool may result in data exposure or unauthorized processing. AAIA emphasizes privacy, confidentiality, and data protection obligations when interacting with external AI systems.

Option B (safeguards) is important but still secondary to ensuring compliance with internal data protection rules. Formatting alignment (A) and budget considerations (C) do not address the primary risk: improper disclosure of confidential audit data. Therefore, data protection compliance is the priority.

References:

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

NEW QUESTION # 152

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

Answer: C

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 # 153

When auditing the transparency of an AI system, which of the following would be the MOST effective way to understand the model's decision-making process?

- A. Analyzing the complexity of the algorithms used
- B. Assessing the computational cost of the model
- **C. Reviewing the explainability of AI outputs**
- D. Evaluating the diversity of the training data set

Answer: C

NEW QUESTION # 154

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