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## ISACA AAIA Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>• 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.</li></ul>

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## Popular AAIA Exams - How to Prepare for ISACA AAIA: ISACA Advanced in AI Audit

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## ISACA Advanced in AI Audit Sample Questions (Q47-Q52):

### NEW QUESTION # 47

An AI tool is being implemented for a regional healthcare organization. Which of the following training methods BEST ensures the AI output does not reveal whether someone's personal data was used?

- A. Data augmentation during training to improve privacy
- B. Supervised learning with labeled patient records
- C. Transfer learning using public health data sets
- **D. Differential privacy applied during model training**

**Answer: D**

Explanation:

Differential privacy introduces carefully calibrated noise during training or query responses so that it becomes mathematically difficult to infer whether any specific individual's record is included in the training set. For healthcare data—highly sensitive and subject to strict privacy laws—this technique directly supports privacy-by-design, reducing the risk that model outputs leak membership information or reconstruct personal records.

Option A uses real patient records directly and does not, by itself, mitigate inference risk. Option B (data augmentation) may expand the dataset but does not guarantee resistance to membership inference attacks.

Option D (transfer learning using public data) can help, but if any private data is used in fine-tuning, privacy risks remain. Differential privacy, as in option C, is the most appropriate control to ensure that outputs do not reveal whether particular personal data was used.

References:

ISACA, AAIA Exam Content Outline- Domain 1: Privacy and Data Governance Programs; Domain 2: Data Management Specific to AI (data confidentiality, data security).

ISACA guidance on privacy-by-design and AI risk management concepts reflected in AAIA.

### NEW QUESTION # 48

Which of the following controls helps mitigate the risk of competitors poisoning data utilized by a machine learning (ML) model performing sentiment analysis of product reviews?

- A. Augmenting the unbalanced product review data set with the use of oversampling by the model developer
- B. Hiring a marketing firm to text links to customers requesting product reviews for monetary compensation
- **C. Requiring customers to authenticate access to their accounts prior to writing product reviews**
- D. Peer reviewing code that acquires product reviews from social media posts

**Answer: C**

Explanation:

To prevent data poisoning, especially in systems relying on publicly submitted content such as product reviews, access authentication is critical. The AAIA™ Study Guide specifies that authenticated input sources help ensure data integrity and traceability, reducing the likelihood of adversarial or malicious contributions.

"Limiting review input to authenticated users restricts unauthorized actors—such as competitors or bots— from submitting biased or harmful data. This control protects model training and outputs from being manipulated." Options A and C address technical data handling but not source authenticity. Option B may inadvertently incentivize biased reviews. Option D provides a robust control against poisoning.

Reference: ISACA Advanced in AI Audit™ (AAIA™) Study Guide, Section: "AI Fundamentals and Technologies," Subsection: "Input Data Security and Adversarial Risk Mitigation"

### NEW QUESTION # 49

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. Performance issues due to excessive computation
- C. Difficulties in preventing the input of biased data
- D. Differences of opinion regarding model types

**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 # 50

In order to streamline operations, a bank has deployed an AI application to automatically detect and prevent further fraud on accounts. However, customers have voiced concerns that their usual transactions are being rejected. Which of the following is the MOST likely cause of the false positives?

- A. The hyperparameters are not optimized.
- B. Compute scale training was not performed.
- C. Consent is not properly managed.
- D. Data versioning controls were not developed.

Answer: A

#### NEW QUESTION # 51

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. Elimination of human judgment in data and evidence analysis
- C. Ability to rely on unstructured data with minimal cleansing
- D. Reduced time spent gathering data with fewer errors in evidence compilation

Answer: D

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 # 52

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