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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.

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ISACA Advanced in AI Audit Sample Questions (Q83-Q88):

NEW QUESTION # 83

Which of the following is the GREATEST data quality risk when using an AI tool to assist with audit procedures?

- **A. Utilizing unstructured data sources without standardized preprocessing**
- B. Training models on historical audit results generated prior to AI adoption
- C. Applying automated anomaly detection without human oversight
- D. Embedding AI audit tools in transactional systems without user training

Answer: A

Explanation:

Unstructured data without standardized preprocessing (option A) creates the highest data quality risk because AI models depend heavily on the cleanliness, consistency, and structure of input data.

AAIA warns that improperly processed unstructured data leads to:

- * Incorrect text extraction
- * Lost contextual meaning
- * Feature extraction errors
- * Misclassification
- * Inaccurate audit evidence

Option B is a bias or relevance risk, not data quality.

Option C is a governance/training issue.

Option D is an oversight risk, not a data quality issue.

Therefore, using unstructured data without preprocessing is the most direct threat to data quality.

References:

AAIA Domain 2: Data Preprocessing and Quality

AAIA Domain 3: AI-Assisted Audit Evidence Integrity

NEW QUESTION # 84

An organization plans to share customer data collected through an AI system with third-party vendors. Which of the following BEST demonstrates compliance with data privacy principles?

- A. Including a statement about AI data sharing practices in the company's privacy policy
- B. Ensuring vendors implement adequate technical safeguards for data protection
- C. Communicating to customers about AI data sharing practices
- **D. Obtaining expressed consent from customers before sharing their data**

Answer: D

Explanation:

The strongest demonstration of compliance with privacy principles-especially those emphasized in AAIA, such as lawfulness, transparency, and consent-is obtaining expressed customer consent(B) before sharing data with third parties. Consent ensures that data processing aligns with legal and ethical requirements, reducing risks related to regulatory violations, unauthorized processing, and loss of customer trust.

Option A and C relate only to disclosure and transparency, which are necessary but insufficient. Option D concerns vendor security controls, which are important but do not address the legal basis for sharing data.

Explicit, informed consent is the highest standard of compliance for third-party data sharing.

References:

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

ISACA data governance guidance on lawful basis and consent.

NEW QUESTION # 85

Which of the following is MOST important to review in order to gain assurance that an AI model is performing without biases?

- A. AI model adaptability
- B. AI development environment
- C. AI training data
- D. AI model temperature

Answer: C

Explanation:

Bias in AI models is most commonly introduced through the training data. The AAIA™ Study Guide highlights that to ensure fairness, auditors and developers must evaluate the diversity, representativeness, and quality of the data used to train the model. "The greatest source of bias in AI comes from the training data. Reviewing and auditing this data is critical to ensuring that outputs do not disproportionately affect specific groups or skew results." While adaptability (C) and model parameters like temperature (D) affect behavior, they do not address the root cause of most biases. The development environment (B) supports infrastructure but not ethical assurance.

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

NEW QUESTION # 86

An AI healthcare diagnostic tool requires large volumes of patient data, raising concerns about privacy and data breaches. Which of the following is the MOST effective strategy to mitigate this risk?

- A. Collect data from all patients to use for data analysis.
- B. Encrypt the data and transmit it through a secure channel.
- C. Limit the tool's access to only publicly available datasets.
- D. Use synthetic data or anonymized data sets for model training.

Answer: D

Explanation:

The most effective strategy to protect sensitive patient data is to use synthetic data or anonymized datasets for model training. This reduces exposure of personally identifiable information while allowing the model to learn meaningful medical patterns. AAIA emphasizes privacy-by-design, de-identification, and minimal use of raw personal data in high-risk sectors such as healthcare. Anonymization and synthetic data significantly reduce the risk of re-identification or breach-related harm. Option A (encryption) protects data in transit but does not eliminate privacy risks. Option B is impractical because healthcare models require clinically relevant datasets, not public data. Option C increases data exposure, aggravating privacy risks. Thus, using anonymized or synthetic data is the strongest privacy protection aligned with healthcare compliance principles.

References:

AAIA Domain 5: Data Privacy, AI Ethics, and Compliance.

AAIA Domain 2: Data Management Practices for Sensitive AI Use Cases.

NEW QUESTION # 87

During a risk assessment for an AI system, data drift was identified as a key risk. Which of the following is the BEST course of action?

- A. Retrain the model immediately using the same data set.
- B. Document the risk and implement continuous monitoring
- C. Disable the AI system until risk is eliminated.
- D. Archive the training data and proceed with deployment.

Answer: B

Explanation:

Data drift occurs when the statistical properties of input data change over time, causing the AI model to produce increasingly inaccurate or biased results.

The correct response is to document the risk and implement continuous monitoring(A) because:

- * Drift requires ongoing detection, not a one-time fix
- * Retraining too early can reinforce issues (especially with the same dataset)
- * Disabling the system (D) is overly disruptive unless drift results in unsafe decisions
- * Continuing deployment without monitoring (C) increases risk of degraded performance AAIA emphasizes drift monitoring dashboards, alerting mechanisms, and retraining triggers as essential controls for AI operations.

References:

AAIA Domain 2: AI Operations - Monitoring, Drift Detection, and Lifecycle Maintenance

NEW QUESTION # 88

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