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1. Which of the following is MOST important to consider when auditing an organization's AI procedures?
 A. Frequency of AI system updates to enhance security
 B. Employee training on recognized AI best practices
 C. Backup and recovery in the event of an AI data breach
 D. AI data validation and filtration to prevent data poisoning
Answer: D

2. 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. Evaluating the diversity of the training data set
 B. Analyzing the complexity of the algorithms used
 C. Assessing the computational cost of the model
 D. Reviewing the explainability of AI outputs
Answer: D

3. The PRIMARY purpose of maintaining an audit trail in AI systems is to:
 A. Facilitate transparency and traceability of decisions.
 B. Analyze model accuracy and fairness.
 C. Measure computational efficiency.
 D. Ensure compliance with regulatory standards for AI.
Answer: A

4. A digital bank utilizes an AI system to generate credit scores. Which of the following would BEST mitigate the risk of sudden and unexplained changes in a borrower's credit score?
 A. Ensuring the system is periodically reviewed and calibrated by human experts to maintain stability in predictions
 B. Using only data from the last six months to one year to avoid outdated information affecting the credit score
 C. Allowing the AI to operate fully autonomously to prevent processing delays
 D. Obtaining and validating the credit scores from third-party agencies to cross-check AI-generated results
Answer: A

5. Which of the following AI system characteristics would BEST help an IS auditor evaluate the system's algorithm?
 A. The AI system algorithm uses training data to inform decision output.
 B. The AI system provides multiple options for model training.
 C. The AI system provides transparent justification of decisions.
 D. The AI system uses archived transaction data to provide decisions.
Answer: C

6. An IS auditor is auditing an organization's data governance framework. The primary objective is to provide assurance that data management practices are standardized to support a trustworthy AI system.

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The objective of the Exam4Labs is to help AAIA exam applicants crack the test. It follows its goal by giving a completely free demo of Real AAIA Exam Questions. The free demo will enable users to assess the characteristics of the ISACA Advanced in AI Audit exam product.

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"> 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 3	<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.
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ISACA Advanced in AI Audit Sample Questions (Q116-Q121):

NEW QUESTION # 116

During an audit of an investment organization's AI-powered software, an IS auditor identifies a potential security risk. What is the GREATEST risk associated with staff exfiltrating organizational data to a generative AI tool?

- A. Potential business disruptions
- B. Excessive reliance on AI-generated insights
- C. **Unauthorized data disclosure**
- D. Data contamination due to biased AI model outputs

Answer: C

NEW QUESTION # 117

Which of the following BEST ensures representativeness in AI systems when assessing training data periodically?

- A. **Training data remains relevant and reflects evolving real-world conditions.**
- B. Training data is manually reviewed for bias.
- C. Synthetic data is used to train the AI systems.
- D. Data validation processes are automated and consistently performed.

Answer: A

Explanation:

Representativeness means that training data accurately reflects the current real-world environment in which the AI system operates. The BEST way to ensure this is by verifying that the training data remains relevant and aligned with evolving real-world conditions (C). This controls the risk of model degradation, bias, or drift as environments change. AAIA emphasizes continual reassessment of data relevance, freshness, and contextual accuracy.

Manual review (A) is limited in scope and scale. Automated validation (B) helps detect errors but does not ensure data reflects the real world. Synthetic data (D) supplements but does not guarantee representativeness unless calibrated properly.

Therefore, continuous relevance and contextual alignment is the most important factor.

References:

ISACA, AAIA Exam Content Outline- Domain 2: Data Management Specific to AI (data relevance, drift detection, representativeness).

NEW QUESTION # 118

In the context of an AI implementation, which of the following actions is MOST critical for an organization's change management program?

- A. **Conducting a comprehensive risk assessment specific to AI-related changes**

- B. Verifying that all employees have completed mandatory AI ethics training
- C. Reviewing documentation for AI system changes, updates, and patches
- D. Ensuring the organization has a dedicated AI governance committee

Answer: A

NEW QUESTION # 119

Which of the following initially provides assurance that the developer correctly interprets and identifies numerical data for balancing prior to inserting into the model?

- A. Data computing library
- B. Statistical summary
- C. Data dictionary
- D. Confusion matrix

Answer: C

Explanation:

A data dictionary (A) is the authoritative source for understanding:

- * Data types and numeric formats
- * Valid ranges and interpretations
- * Field definitions and business meaning
- * Normalization and scaling expectations

Before balancing or preprocessing data, developers must verify that they understand each feature correctly.

The AAIA framework emphasizes that misinterpretation of numeric variables often leads to:

- * Incorrect normalization
- * Faulty scaling
- * Skewed class balancing
- * Inaccurate model training

Statistical summaries (C) help identify distributions but cannot validate semantic meaning. Confusion matrices (D) are used after training. Libraries (B) are tools, not sources of interpretation.

References:

AAIA Domain 2: Data Management - Data Dictionaries, Metadata, Data Understanding

NEW QUESTION # 120

When reviewing contracts or other lengthy documentation in the planning phase, which of the following tools would BEST extract relevant information?

- A. Robotic process automation (RPA)
- B. Natural language processing
- C. Predictive analytics
- D. Autoregressive sequencing model

Answer: B

Explanation:

Natural Language Processing (NLP) enables systems to understand, summarize, and extract relevant insights from unstructured text data such as contracts, emails, or reports. The AAIA™ Study Guide recognizes NLP as the optimal tool for document review during audit planning or risk assessment phases.

"NLP techniques can efficiently process large volumes of documentation, highlight key clauses, and identify inconsistencies or risk indicators. This enhances audit productivity and thoroughness." While RPA (A) automates repetitive tasks, it doesn't interpret content. Predictive analytics (C) forecasts trends, and autoregressive models (B) generate sequences, not summarize documents.

Reference: ISACA Advanced in AI Audit™ (AAIA™) Study Guide, Section: "AI in Audit Processes," Subsection: "NLP Applications in Audit Planning and Risk Identification"

NEW QUESTION # 121

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