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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"> 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 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.

ISACA Advanced in AI Audit Sample Questions (Q146-Q151):

NEW QUESTION # 146

Which of the following is the BEST use of AI to audit relationships for conflicts of interest or collusion?

- A. Graph analytics
- B. Correlation matrix
- C. Time series analysis
- D. Monte Carlo simulation

Answer: A

Explanation:

Graph analytics is specifically designed to analyze complex relationships among people, entities, transactions, and systems. According to AAIA audit methodologies, graph analytics helps identify hidden or non-obvious relationships indicative of:

- * Collusion
- * Fraud rings
- * Undisclosed conflicts of interest
- * Influence networks
- * Hidden ownership structures

Correlation matrices (A) only measure linear relationships. Time series (B) identifies patterns over time, not relationships. Monte Carlo simulation (D) models uncertainty but does not uncover relational structures.

Graph analytics is the strongest AI-enabled method for mapping and auditing relational risks.

References:

AAIA Domain 3: AI Tools for Audit Analytics

AAIA Domain 4: Relationship Analysis and Fraud Detection

NEW QUESTION # 147

An organization is using information gathered from customer accounts to train its AI chatbot. Which of the following is the GREATEST risk associated with this practice?

- A. Transparency
- B. AI bias
- C. AI model hallucinations
- D. Disclosure of personal information

Answer: D

NEW QUESTION # 148

Which of the following metrics are the BEST indication of a mature and effective approach to an organization's data governance program for its AI systems?

- A. Frequency of data quality audits on the organization's data sets
- B. Total budget allocated to AI initiatives across all departments
- C. Number of AI projects completed within the last fiscal year
- **D. Percentage of AI models with documented data lineage**

Answer: D

Explanation:

Documented data lineage (option B) is a cornerstone of mature data governance. The ISACA AAIA™ Study Guide highlights that "effective data governance for AI is characterized by the organization's ability to trace and document the origin, transformation, and use of data throughout its lifecycle and within AI models." This documentation provides transparency, supports accountability, and enables effective risk management.

While regular data quality audits (option C) are important, they do not, by themselves, ensure transparency or traceability. The number of projects (option A) and budget allocation (option D) are not directly indicative of governance maturity.

Reference: ISACA Advanced in AI Audit™ (AAIA™) Study Guide, Section: "Data Governance in AI: Data Lineage and Traceability"

NEW QUESTION # 149

Which of the following is MOST important to have in place when initially populating data into a data frame for an AI model?

- A. The code for separating data into training and testing data sets
- B. The box charts, histograms, scatterplots, and Venn diagrams that identify correlations and outliers
- C. An approved risk assessment for including, excluding, or subsequently dropping data attributes from the model
- **D. An analysis of exploratory data that checks for incorrect data types, null values, and duplicate entries**

Answer: D

Explanation:

Exploratory Data Analysis (EDA) is critical during the initial stages of AI model development. According to the AAIA™ Study Guide, performing EDA-including identifying null values, incorrect data types, or duplicates-ensures that the data fed into the model is clean and reliable.

"Initial data frames should be subject to thorough EDA to uncover data quality issues. These issues, if not addressed early, can severely affect model training and predictive accuracy." While separating data sets (B) and visualizations (A) are important steps in later phases, C is foundational to ensure readiness for model training. Risk assessments (D) are necessary but not the first operational step.

Reference: ISACA Advanced in AI Audit™ (AAIA™) Study Guide, Section: "AI Fundamentals and Technologies," Subsection: "Exploratory Data Analysis and Preprocessing"

NEW QUESTION # 150

An organization is using a large language model (LLM) to assist in evaluating loan applications, but the training data used is known to be incomplete. Which of the following is the GREATEST associated risk?

- A. Reduced customer satisfaction
- **B. Unfair loan decisions**
- C. Delays in loan approval
- D. Increased manual processing of applications

Answer: B

Explanation:

Incomplete training data often leads to underrepresentation of certain applicant types, products, or scenarios.

In credit and lending, this typically translates into systematic bias: some groups are evaluated on richer historical patterns, while others are evaluated on sparse or unrepresentative information. The greatest associated risk is therefore unfair loan decisions (A), which can manifest as unjustified rejections, inappropriate pricing, or inconsistent risk assessments.

While delays (B), reduced satisfaction (C), or increased manual work (D) may occur, they are secondary operational issues. AAIA highlights that for financial services, the central risks include fairness, discrimination, regulatory compliance, and reputational impact. Incomplete data directly undermines fairness and can violate lending regulations and internal risk appetite.

References:

ISACA, AAIA Exam Content Outline- Domain 1: AI Governance and Risk (risk categories, including fairness and discriminatory

ISACA AI ethics content on data completeness and representativeness in decisioning systems.

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