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ISACA AAISM Exam Syllabus Topics:

Topic	Details

Topic 1	<ul style="list-style-type: none"> AI Governance and Program Management: This section of the exam measures the abilities of AI Security Governance Professionals and focuses on advising stakeholders in implementing AI security through governance frameworks, policy creation, data lifecycle management, program development, and incident response protocols.
Topic 2	<ul style="list-style-type: none"> AI Technologies and Controls: This section of the exam measures the expertise of AI Security Architects and assesses knowledge in designing secure AI architecture and controls. It addresses privacy, ethical, and trust concerns, data management controls, monitoring mechanisms, and security control implementation tailored to AI systems.
Topic 3	<ul style="list-style-type: none"> AI Risk Management: This section of the exam measures the skills of AI Risk Managers and covers assessing enterprise threats, vulnerabilities, and supply chain risk associated with AI adoption, including risk treatment plans and vendor oversight.

ISACA Advanced in AI Security Management (AAISM) Exam Sample Questions (Q105-Q110):

NEW QUESTION # 105

Which of the following AI-driven systems should have the MOST stringent recovery time objective (RTO)?

- A. Industrial control system
- B. Car navigation system
- C. Health support system
- D. Credit risk modeling system

Answer: A

Explanation:

AAISM risk guidance notes that the most stringent recovery objectives apply to industrial control systems, as downtime can directly disrupt critical infrastructure, manufacturing, or safety operations. Health support systems also require high availability, but industrial control often underpins safety-critical and real-time environments where delays can result in catastrophic outcomes. Credit risk models and navigation systems are important but less critical in terms of immediate physical and operational impact. Thus, industrial control systems require the tightest RTO.

References:

AAISM Study Guide - AI Risk Management (Business Continuity in AI)

ISACA AI Security Management - RTO Priorities for AI Systems

NEW QUESTION # 106

Which of the following methods provides the MOST effective protection against model inversion attacks?

- A. Implementing regularization output
- B. Reducing the model's complexity
- C. Using adversarial training
- D. Increasing the number of training iterations

Answer: A

Explanation:

AAISM classifies model inversion as a privacy leakage threat where adversaries infer sensitive attributes or training records from model outputs. The recommended technical risk treatments emphasize reducing overfitting and information leakage via regularization and output-side constraints. Regularization (e.g., stronger penalties, output smoothing, confidence calibration, temperature limiting, and related techniques) reduces the model's tendency to memorize training data and curtails exploitable signal in outputs.

* A (adversarial training) targets perturbation robustness, not primary for inversion.

* B (reducing complexity) can help but is a coarse control with limited assurance versus explicit anti-leakage regularization.

* D (more iterations) typically increases overfitting and leakage risk.

AAISM further notes that privacy-preserving training and output minimization are preferred where feasible; among the listed options, regularization most directly addresses inversion risk.

References: * AI Security Management (AAISM) Body of Knowledge: Model Security-Privacy leakage threats (membership inference, inversion) and mitigation via regularization and output minimization. * AI Security Management Study Guide: Overfitting controls, calibration and confidence suppression as defenses against inference attacks.

NEW QUESTION # 107

A CISO must provide KPIs for the organization's newly deployed AI chatbot. Which metrics are BEST?

- A. Explainability and F1 score
- B. Customer effort score and user retention
- **C. Error rate and bias detection**
- D. Response time and throughput

Answer: C

Explanation:

AAISM recommends that AI KPIs should emphasize:

- * Error rates - measure correctness and reliability
- * Bias detection metrics - assess fairness and harm risk

These are the core governance KPIs for AI systems interacting with end users.

Response time (A) is a performance metric but not an AI governance KPI. Customer retention (C) is business- focused. F1 score (D) is useful but not as critical as bias monitoring.

References: AAISM Study Guide - AI Performance, Fairness & Governance Metrics.

NEW QUESTION # 108

A retail organization implements an AI-driven recommendation system that utilizes customer purchase history. Which of the following is the BEST way for the organization to ensure privacy and comply with regulatory standards?

- A. Establishing a governance committee to oversee AI privacy practices
- **B. Maintaining a register of legal and regulatory requirements for privacy**
- C. Conducting quarterly retraining of the AI model to maintain the accuracy of recommendations
- D. Storing customer data indefinitely to ensure the AI model has a complete history

Answer: B

Explanation:

According to the AI Security Management (AAISM) study framework, compliance with privacy and regulatory standards must begin with a formalized process of identifying, documenting, and maintaining applicable obligations. The guidance explicitly notes that organizations should maintain a comprehensive register of legal and regulatory requirements to ensure accountability and alignment with privacy laws. This register serves as the foundation for all governance, risk, and control practices surrounding AI systems that handle personal data.

Maintaining such a register ensures that the recommendation system operates under the principles of privacy by design and privacy by default. It allows decision-makers and auditors to trace every AI data processing activity back to relevant compliance obligations, thereby demonstrating adherence to laws such as GDPR, CCPA, or other jurisdictional mandates.

Other measures listed in the options contribute to good practice but do not achieve the same direct compliance outcome. Retraining models improves technical accuracy but does not address legal obligations. Oversight committees are valuable but require the documented register as a baseline to oversee effectively. Indefinite storage of customer data contradicts regulatory requirements, particularly the principle of data minimization and storage limitation.

AAISM Domain Alignment:

This requirement falls under Domain 1 - AI Governance and Program Management, which emphasizes organizational accountability, policy creation, and maintaining compliance documentation as part of a structured governance program.

References from AAISM and ISACA materials:

AAISM Exam Content Outline - Domain 1: AI Governance and Program Management AI Security Management Study Guide - Privacy and Regulatory Compliance Controls ISACA AI Governance Guidance - Maintaining Registers of Applicable Legal Requirements

NEW QUESTION # 109

Which of the following is the MOST important consideration when an organization is adopting generative AI for personalized

advertising?

- A. Fraud risk
- B. Regulatory risk
- C. Reputational risk
- D. Commercial risk

Answer: B

Explanation:

In AAISM, usage of AI for activities involving personal data and profiling, such as personalized advertising, is explicitly mapped to stringent regulatory and compliance requirements (e.g., data protection, consent, profiling limitations, fairness obligations). The material notes that these activities may trigger "heightened regulatory scrutiny, mandatory impact assessments, and potential penalties for non-compliance." While reputational (B), fraud (A), and commercial (C) risks are all relevant, the primary, non-optimal constraint is compliance with applicable regulations governing personal data, automated profiling, and targeted content. Failure in this area can lead not only to reputational harm but also to legal sanctions, enforced remediation, and operational restrictions. Therefore, regulatory risk is identified as the most important consideration when deploying generative AI for personalized advertising.

References: AI Security Management™ (AAISM) Study Guide - AI, Privacy, and Regulatory Compliance; High-Risk Use Cases and Profiling.

NEW QUESTION # 110

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