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ISACA Advanced in AI Security Management (AAISM) Exam Sample Questions (Q58-Q63):

NEW QUESTION # 58

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

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

Answer: B

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 # 59

Which of the following BEST describes the role of transparency in AI?

- A. Talking through a decision tree to better understand how the algorithm made each of its choices
- B. Publishing AI mechanisms, data sources, and decision-making processes while making them openly available
- **C. Explaining the AI system in an understandable and logical way so reasons for decisions can be given**
- D. Persuading someone that the AI tool in use is beneficial and operates as expected

Answer: C

Explanation:

Transparency in AI is a governance principle requiring that systems be explainable to stakeholders in ways that are understandable and meaningful, enabling clear articulation of how decisions were reached and why.

Within an AI program, transparency supports accountability, auditability, and trust by ensuring that reasons for decisions can be communicated and scrutinized. Option C reflects this definition by focusing on intelligible, logical explanations of system behavior and decision rationale.

Option A is a narrow technique (model-specific interpretability for decision trees) and does not capture transparency as a broad governance requirement. Option B conflates transparency with full public disclosure; transparency does not require making all artifacts openly available. Option D is persuasion/advocacy, not transparency.

References: AI Security Management™ (AAISM) Body of Knowledge: "AI Governance-Transparency and Explainability," "Accountability and Assurance"; AAISM Study Guide: "Explainability Objectives and Stakeholder Communication," "Documentation for Decision Rationale."

NEW QUESTION # 60

A large financial services organization is integrating a third-party AI solution into its critical fraud detection system. Which of the following is the BEST way for the organization to reduce risk associated with AI vendor and supply chain dependencies?

- A. Conducting annual vulnerability assessments of the fraud detection system after integration
- B. Implementing isolated virtual environments to validate the integration of the fraud detection system with the solution
- C. Focusing on performance testing to ensure the solution meets operational requirements
- **D. Establishing contractual agreements requiring vendors to provide evidence of secure development practices**

Answer: D

Explanation:

AAISM emphasizes supplier assurance through contractual obligations as the foundational control for AI supply chain risk.

Contracts should require verifiable evidence of secure development practices (e.g., secure SDLC, model and data provenance documentation, SBOM/MBOM where applicable, vulnerability disclosure, patch SLAs, audit rights, incident notification, and regulatory compliance assertions). This creates enforceable, continuous assurance beyond point-in-time tests.

* A is necessary but reactive and limited to your environment.

* B addresses performance, not supply chain security.

* D is a good isolation/validation practice but does not create vendor accountability across the lifecycle.

References: * AI Security Management™ (AAISM) Body of Knowledge: Third-Party and Supply Chain Governance-Contractual security requirements, evidence-based assurance, right-to-audit. * AI Security Management™ Study Guide: Vendor due diligence artifacts, secure development evidence, lifecycle obligations for AI providers.

NEW QUESTION # 61

A financial institution plans to deploy an AI system to provide credit risk assessments for loan applications.

Which of the following should be given the HIGHEST priority in the system's design to ensure ethical decision-making and prevent bias?

- A. Integrate a mechanism for customers to appeal decisions directly within the system.
- B. Restrict the model's decision-making criteria to objective financial metrics only.
- C. Train the system to provide advisory outputs with final decisions made by human experts.
- D. Regularly update the model with new customer data to improve prediction accuracy.

Answer: C

Explanation:

In AI governance frameworks, credit scoring is treated as a high-risk application. For such systems, the highest-priority safeguard is human oversight to ensure fairness, accountability, and prevention of bias in automated decisions.

The AI Security Management (AAISM) domain of AI Governance and Program Management emphasizes that high-impact AI systems require explicit governance structures and human accountability. Human-in-the-loop design ensures that final decisions remain the responsibility of human experts rather than being fully automated. This is particularly critical in financial contexts, where biased outputs can affect individuals' access to credit and create compliance risks.

Official ISACA AI governance guidance specifies:

High-risk AI systems must comply with strict requirements, including human oversight, transparency, and fairness.

The purpose of human oversight is to reduce risks to fundamental rights by ensuring humans can intervene or override an automated decision.

Bias controls are strengthened by requiring human review processes that can analyze outputs and prevent unfair discrimination.

Why other options are not the highest priority:

A). Regular updates improve accuracy but do not guarantee fairness or ethical decision-making. Model drift can introduce new bias if not governed properly.

B). Appeals mechanisms are important for accountability, but they operate after harm has occurred.

Governance frameworks emphasize prevention through human oversight in the decision loop.

D). Restricting criteria to "objective metrics" is insufficient, as even objective data can contain hidden proxies for protected attributes.

Bias mitigation requires monitoring, testing, and human oversight, not only feature restriction.

AAISM Domain Alignment:

Domain 1 - AI Governance and Program Management: Ensures accountability, ethical oversight, and governance structures.

Domain 2 - AI Risk Management: Identifies and mitigates risks such as bias, discrimination, and lack of transparency.

Domain 3 - AI Technologies and Controls: Provides the technical enablers for implementing oversight mechanisms and bias detection tools.

References from AAISM and ISACA materials:

AAISM Exam Content Outline - Domain 1: AI Governance and Program Management (roles, responsibilities, oversight).

ISACA AI Governance Guidance (human oversight as mandatory in high-risk AI applications).

Bias and Fairness Controls in AI (human review and intervention as a primary safeguard).

NEW QUESTION # 62

Which of the following BEST describes how supervised learning models help reduce false positives in cybersecurity threat detection?

- A. They use real-time feature engineering to automatically adjust decision boundaries
- B. They dynamically generate new labeled data sets
- C. They learn from historical labeled data
- D. They analyze patterns in data to group legitimate activity from actual threats

Answer: C

Explanation:

According to AAISM technical content, supervised learning models reduce false positives by learning from historical labeled data that distinguishes between legitimate activity and actual threats. This training enables the model to recognize patterns and improve its discrimination ability over time. Grouping patterns (A) describes clustering, an unsupervised method. Real-time feature engineering (B) and generating new labeled data (D) are advanced techniques but not the fundamental supervised learning approach. The essence of supervised learning is leveraging labeled data to minimize misclassification, including false positives.

References:

AAISM Exam Content Outline - AI Technologies and Controls (Machine Learning Approaches) AI Security Management Study Guide - Supervised Learning for Threat Detection

NEW QUESTION # 63

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