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ISACA AAISM Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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.
Topic 3	• 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.

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ISACA Advanced in AI Security Management (AAISM) Exam Sample Questions (Q117-Q122):

NEW QUESTION # 117
Which defense is MOST effective against cyberattacks that alter input data to avoid detection?

- A. Conducting periodic monitoring of decisions
- B. Enhancing model robustness through adversarial training
- C. Restricting access to internal model parameters
- D. Applying differential privacy to training data

Answer: B

Explanation:
AAISM lists adversarial training as the strongest method to harden models against input manipulation attacks.
By exposing models to adversarial examples during training, the system learns to resist evasion techniques.
Access restriction (B) protects confidentiality, not detection evasion. Monitoring (C) is reactive, not preventive. Differential privacy (D) protects individual data, not adversarial inputs.
References: AAISM Study Guide - AI Evasion Attacks; Adversarial Training Mitigation.

NEW QUESTION # 118
Which of the following is the BEST mitigation control for membership inference attacks on AI systems?

- A. AI threat modeling
- B. Cybersecurity-oriented red teaming
- C. Differential privacy
- D. Model ensemble techniques

Answer: C

Explanation:
Membership inference attacks attempt to determine whether a particular data point was part of a model's training set, which risks violating privacy. The AAISM study guide highlights differential privacy as the most effective mitigation because it introduces mathematical noise that obscures individual contributions without significantly degrading model performance. Ensemble methods improve robustness but do not specifically protect privacy. Threat modeling and red teaming help identify risks but are not direct controls. The explicit mitigation control aligned with privacy preservation for membership inference is differential privacy.
References:
AAISM Study Guide - AI Technologies and Controls (Privacy-Preserving Techniques) ISACA AI Security Management - Membership Inference Mitigations

NEW QUESTION # 119
Which of the following methods provides the MOST effective protection against model inversion attacks?

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

Answer: D

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 # 120
Which of the following involves documenting and monitoring the complete journey of data as it flows through an AI system?

- A. Origin
- B. Lineage
- C. Transformation
- D. Processing

Answer: B

Explanation:
Data lineage records and monitors the end-to-end journey of data-sources, movements, transformations, storage locations, uses, and dependencies-providing traceability, auditability, and accountability across the AI lifecycle. "Origin" is a single point (provenance), "transformation" is one step within the flow, and
"processing" is a general activity rather than a governance record of the entire path.
References: AI Security Management™ (AAISM) Body of Knowledge: Data Governance-Provenance and Lineage; AAISM Study Guide: Lineage Documentation, Traceability, and Audit Evidence.

NEW QUESTION # 121
Which of the following strategies is the MOST effective way to protect against AI data poisoning?

- A. Increasing model complexity to better handle data variations
- B. Ensuring the model is trained on diverse data sources
- C. Incorporating more features and data into model training
- D. Using robust data validation techniques and anomaly detection

Answer: D

Explanation:
AAISM directs organizations to prevent training-time attacks by hard-gating data ingestion with provenance checks, schema and label validation, sanitization, and anomaly/outlier detection prior to model training. These controls most directly block poisoned records from entering the pipeline and are prioritized over architectural complexity or sheer data volume. Diversity of sources can improve representativeness but does not reliably stop adversarial contamination.
References: AI Security Management™ (AAISM) Body of Knowledge - Adversarial ML: Training-Time Threats; Secure Data Ingestion & Validation Controls; AI Risk Treatment and Assurance. AAISM Study Guide - Poisoning Prevention Gates; Provenance, Quality, and Anomaly Screening in ML Pipelines.

NEW QUESTION # 122
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