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ISACA Advanced in AI Security Management (AAISM) Exam Sample

Questions (Q254-Q259):

NEW QUESTION # 254

During red-team testing of an AI system used for lending decisions, which technique BEST simulates a data poisoning attack?

- A. Adding noise to output predictions
- B. Inputting encrypted data
- **C. Corrupting training datasets to manipulate outcomes**
- D. Stealing model weights

Answer: C

Explanation:

AAISM defines data poisoning as intentional manipulation of the training data to influence model behavior or outputs. Corrupting training data (D) is the exact definition of this attack type.

Noise injection (A) is model degradation testing. Model theft (B) is exfiltration. Encrypted data (C) is irrelevant.

References: AAISM Study Guide - AI Threats; Data Poisoning Attacks.

NEW QUESTION # 255

A critical AI system shows biased outcomes. What is the BEST course of action?

- A. Conduct audits of data and model
- **B. Perform root cause analysis to identify mitigation**
- C. Retrain the model with a new diverse dataset
- D. Activate the kill switch

Answer: B

Explanation:

AAISM emphasizes root cause analysis as the primary step when AI behavior deviates unexpectedly. RCA determines whether issues stem from:

- * data drift
- * model drift
- * poisoned data
- * missing features
- * logic errors
- * configuration changes

Retraining (D) may be required later, but only after RCA. Kill switches (A) are last-resort tools. Audits (B) help but are narrower than RCA.

References: AAISM Study Guide - Incident Response for AI; Root Cause First Principle.

NEW QUESTION # 256

A viral video shows a blurry person making claims about a product safety issue. The video has random low-quality sections. This MOST likely represents what threat?

- A. Data poisoning
- **B. Deepfake**
- C. Model drift
- D. Hallucinations

Answer: B

Explanation:

AAISM defines deepfakes as manipulated media where individuals appear in synthetic or altered video/audio.

Indicators include:

- * blurred or inconsistent facial rendering
- * mismatched frames
- * low-quality or distorted transitions

These characteristics match the scenario provided.

Hallucinations (A) relate to model outputs, not video manipulation. Drift (B) affects model performance. Poisoning (C) affects training data, not video content.
References: AAISM Study Guide - AI-Generated Media Threats; Deepfake Identification.

NEW QUESTION # 257

A financial organization uses AI to detect potential fraudulent activities but is concerned about the impact of potential data poisoning. Which of the following controls would BEST mitigate this risk?

- A. Delivering AI-specific security awareness training
- B. Implementing an updated and tested break-glass policy
- C. Using training data from multiple sources
- D. Being transparent with customers about the data sources

Answer: C

Explanation:

AAISM identifies training-data diversity and provenance assurance as primary treatments against data poisoning. Sourcing data from multiple, independently governed providers, combined with ingestion validation and anomaly screening, reduces the chance that a single compromised source can skew model behavior and improves cross-source consistency checks. Transparency, break-glass, and awareness are valuable but do not directly reduce poisoning exposure at the training boundary.

References: AI Security Management (AAISM) Body of Knowledge - Data Governance & Integrity for AI; Adversarial ML: Poisoning Threats and Mitigations; Supplier and Source Diversification Controls.

NEW QUESTION # 258

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

- A. Using adversarial training
- B. Increasing the number of training iterations
- C. Reducing the model's complexity
- 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 # 259

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