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ISACA Advanced in AI Security Management (AAISM) Exam Sample Questions (Q165-Q170):

NEW QUESTION # 165
When using AI as part of incident response, which of the following BEST ensures the automation aligns with regulatory and governance obligations?

- A. Train the AI incident response platform to mirror legacy response workflows and log containment
- B. Apply anomaly detection models to filter incoming threats and automate containment
- C. Implement a tiered automation strategy where severity ratings inform the need for human oversight
- D. Use deep learning models to autonomously classify all incidents

Answer: C

Explanation:
AAISM prescribes risk-based, human-in-the-loop orchestration for safety-critical or regulated actions. A tiered automation strategy that gates autonomy by incident severity, data sensitivity, and regulatory requirements ensures accountability, auditability, and proportionality, satisfying governance obligations. Full autonomy (A) risks non-compliance; simply mirroring legacy workflows (B) may not meet current obligations; broad auto-containment (C) lacks necessary oversight controls.
References: AI Security Management™ (AAISM) Body of Knowledge - Governance of AI-Driven Security Automation; Human Oversight and Escalation; Risk-Based Orchestration. AAISM Study Guide - Incident Response with AI: Controls, Approvals, and Auditability.

NEW QUESTION # 166
A data scientist creating categories and training the algorithm on large data sets is an example of which type of AI model learning technique?

- A. Reinforcement
- B. Unsupervised
- C. Supervised
- D. Machine learning (ML)

Answer: C

Explanation:
AAISM classifies learning paradigms by the presence of labeled targets. Creating categories (labels) and training on them is supervised learning, where input features are mapped to known outputs and optimization minimizes prediction error against ground truth. Unsupervised (B) discovers structure without labels; reinforcement (A) optimizes behavior via rewards; "machine learning" (C) is the broad field, not the specific technique.
References: AI Security Management (AAISM) Body of Knowledge - AI/ML Foundations; Learning Paradigms and Data Requirements. AAISM Study Guide - Supervised vs. Unsupervised vs. Reinforcement Learning; Label Quality and Model Performance Dependencies.

NEW QUESTION # 167
Secure aggregation enhances federated learning security by:

- A. Encrypting individual model updates so only the server can access them
- B. Processing client updates in isolation
- C. Ensuring client contributions remain confidential even if the server is compromised
- D. Applying differential privacy to training data

Answer: C

Explanation:
AAISM explains that secure aggregation ensures the server only sees aggregated model updates-not individual client contributions-so privacy is preserved even if the server is breached.
Encryption (A) is semi-correct but still allows the server to decrypt. Differential privacy (B) is separate.
Isolation (D) does not guarantee confidentiality.
References: AAISM Study Guide - Federated Learning Security; Secure Aggregation.

NEW QUESTION # 168

Which of the following is the MOST effective strategy for penetration testers assessing the security of an AI model against membership inference attacks?

- A. Measuring AI model accuracy on the test set
- B. Disabling AI model logging to reduce noise during testing
- C. Generating synthetic data to replace the training data
- D. Analyzing AI model confidence scores to indicate training data

Answer: D

Explanation:
AAISM identifies confidence-score analysis as a principal technique for evaluating exposure to membership inference: models often yield measurably higher confidence for points seen during training. Testers compare output probabilities/entropies for known in-training vs. out-of-training samples to assess leakage. Disabling logs (A) reduces evidence; test-set accuracy (B) does not measure privacy leakage; synthetic data generation (D) is a mitigation strategy, not a penetration-testing method.
References: AI Security Management™ (AAISM) Body of Knowledge - Model Privacy Threats:
Membership Inference; Red/Blue Team Evaluation Techniques; Confidence/Entropy-based Privacy Testing.

NEW QUESTION # 169
During red-team testing of an AI system used for lending decisions, which technique BEST simulates a data poisoning attack?

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

Answer: D

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 # 170
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