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ISACA AAISM Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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	• 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.

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ISACA Advanced in AI Security Management (AAISM) Exam Sample Questions (Q172-Q177):

NEW QUESTION # 172
Which of the following is the MOST important course of action prior to placing an in-house developed AI solution into production?

- A. Deploy a prototype of the solution
- B. Obtain senior management sign-off
- C. Perform testing, evaluation, validation, and verification
- D. Perform a privacy, security, and compliance gap analysis

Answer: C

Explanation:
AAISM lifecycle governance guidance specifies that before any AI solution is moved into production, it must undergo testing, evaluation, validation, and verification to ensure accuracy, resilience, security, and compliance with standards. These steps confirm that the solution performs as expected under varied conditions. Conducting gap analysis is part of compliance checks but comes earlier in design. Management sign-off provides approval but cannot substitute for assurance of technical reliability. Deploying prototypes is a testing method but not the final assurance step. The critical requirement is a complete cycle of testing, validation, and verification.
References:
AAISM Exam Content Outline - AI Risk Management (Lifecycle Testing and Validation) AI Security Management Study Guide - Production Readiness Checks

NEW QUESTION # 173
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 # 174
Which of the following should be the PRIMARY objective of implementing differential privacy techniques in AI models leveraging fraud detection systems?

- A. Enhancing the accuracy of predictions to desired levels
- B. Protecting individual data contributions while allowing statistical analysis

- C. Reducing computational resources required for the model training phase
- D. Increasing model training speed for an efficient launch

Answer: B

Explanation:
Differential privacy aims to protect the privacy of any single individual's data contribution while still enabling useful aggregate learning and statistical analysis. Noise mechanisms are calibrated so that results remain informative for modeling (e.g., fraud patterns) without revealing whether any particular person's data was included or enabling inference about them. Accuracy, speed, and compute efficiency can be secondary considerations, but the primary objective is privacy protection with utility preserved.
References: AI Security Management™ (AAISM) Body of Knowledge: Privacy-Preserving ML; Differential Privacy Objectives and Mechanisms. AAISM Study Guide: Individual Contribution Protection; Utility- Privacy Trade-offs and Calibration in Applied Models.

NEW QUESTION # 175
Which of the following strategies is the MOST effective way to protect against AI data poisoning?

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

Answer: A

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 # 176
Which of the following BEST describes an adversarial attack on an AI model?

- A. Conducting denial-of-service attacks on AI APIs
- B. Attacking underlying hardware
- C. Providing inputs that mislead the model into incorrect predictions
- D. Reverse-engineering the model using social engineering

Answer: C

Explanation:
AAISM defines adversarial attacks as manipulations of input data (text, image, audio, numeric values) designed to cause the model to produce incorrect or harmful predictions.
Hardware attacks (A) are infrastructure threats. Social engineering (C) targets people, not models. DoS attacks (D) affect availability, not model decision pathways.
References: AAISM Study Guide - Adversarial Threats; Input Manipulation.

NEW QUESTION # 177
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