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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.

ISACA Advanced in AI Security Management (AAISM) Exam Sample Questions (Q56-Q61):

NEW QUESTION # 56
Which of the following BEST describes how supervised learning models help reduce false positives in cybersecurity threat detection?

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

Answer: A

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 # 57
An AI research team is developing a natural language processing model that relies on several open-source libraries. Which of the following is the team's BEST course of action to ensure the integrity of the software packages used?

- A. Maintain a list of frequently used libraries to ensure consistent application in projects
- B. Retrain the model regularly to handle package and library updates
- C. Use the latest version of all libraries from public repositories
- D. Scan the packages and libraries for malware prior to installation

Answer: D

Explanation:
AAISM's technical control guidance emphasizes that when using open-source libraries, the best safeguard for integrity is to scan the packages for malware before installation. This ensures that compromised or malicious code does not enter the AI system environment. Maintaining lists aids consistency but not security. Always using the latest versions may introduce unverified vulnerabilities. Retraining models addresses functionality but not software integrity. Therefore, the strongest protective measure is pre-installation malware scanning of open-source packages.
References:
AAISM Exam Content Outline - AI Technologies and Controls (Software Supply Chain Security) AI Security Management Study Guide - Open-Source Package Risk Mitigation

NEW QUESTION # 58
Which of the following controls BEST mitigates the inherent limitations of generative AI models?

- A. Adopting AI-specific regulations
- B. Ensuring human oversight
- C. Classifying and labeling AI systems
- D. Reverse engineering the models

Answer: B

Explanation:
The AAISM governance framework emphasizes that the inherent limitations of generative AI-including hallucinations, bias, and unpredictability-are best mitigated by human oversight. Human-in-the-loop review ensures that outputs are validated before being used in sensitive or high-risk contexts. Regulatory adoption, system classification, and reverse engineering all play supporting roles but do not directly safeguard against the model's inherent unpredictability. Governance best practices highlight human oversight as the

critical safeguard.
References:
AAISM Exam Content Outline - AI Governance and Program Management (Human Oversight and Accountability) AI Security Management Study Guide - Mitigating Generative AI Limitations

NEW QUESTION # 59
Which of the following is MOST important for an organization to consider when implementing a preventive security safeguard into a new AI product?

- A. Model output monitoring
- B. Differential privacy
- C. Input sanitization
- D. Penetration testing

Answer: C

Explanation:
AAISM materials emphasize that the most effective preventive safeguard is to ensure input sanitization.
Preventive controls stop malicious or malformed inputs from reaching the model in the first place, thereby reducing the likelihood of prompt injection, evasion, or poisoning at inference time. Model output monitoring is a detective control, not preventive. Penetration testing is an assessment technique rather than a safeguard.
Differential privacy protects data privacy but does not prevent adversarial input manipulation. Therefore, the most important preventive safeguard in a new AI product is robust input sanitization.
References:
AAISM Study Guide - AI Technologies and Controls (Preventive vs. Detective Safeguards) ISACA AI Security Management - Input Validation in AI Systems

NEW QUESTION # 60
An organization develops and implements an AI-based plug-in for users that summarizes their individual emails. Which of the following is the GREATEST risk associated with this application?

- A. Insufficient rate limiting for APIs
- B. Lack of application vulnerability scanning
- C. Inadequate controls over parameters
- D. Data format incompatibility

Answer: C

Explanation:
According to AAISM risk management guidance, the greatest risk in AI applications handling personal communication data is inadequate parameter controls, which may allow unintended access, manipulation, or leakage of sensitive information. Plug-ins that interact with emails must enforce strict parameter validation and security restrictions to prevent unauthorized or manipulated inputs. While vulnerability scanning, format incompatibility, and API rate limiting are valid concerns, they are secondary. The primary risk is a lack of strong parameter controls that could expose sensitive content.
References:
AAISM Exam Content Outline - AI Risk Management (Application Security Risks) AI Security Management Study Guide - Plug-in and API Security Risks

NEW QUESTION # 61
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