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Exam AAISM Objectives - Lab AAISM Questions

As practice makes perfect, we offer three different formats of AAISM exam study material to practice and prepare for the AAISM exam. Our ISACA AAISM practice test simulates the real ISACA Advanced in AI Security Management (AAISM) Exam (AAISM) exam and helps applicants kill exam anxiety. These AAISM practice exams provide candidates with an accurate assessment of their readiness for the AAISM test.

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 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 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.

ISACA Advanced in AI Security Management (AAISM) Exam Sample Questions (Q28-Q33):

NEW QUESTION # 28
Which of the following would BEST help mitigate vulnerabilities associated with hidden triggers in generative AI models?

- A. Applying differential privacy and masking sensitive patterns in the training data
- B. Incorporating adversarial training to expose and neutralize potential triggers
- C. Regularly retraining the model using a diverse data set
- D. Monitoring model outputs and suspicious patterns to detect trigger activations

Answer: B

Explanation:
Hidden triggers are adversarial backdoors planted in AI models, activated only by specific inputs. The AAISM materials specify that the best mitigation is to use adversarial training, which deliberately exposes the model to potential trigger inputs during training so it can learn to neutralize or resist them. Retraining with diverse data reduces bias but does not address hidden triggers. Differential privacy is focused on privacy preservation, not adversarial resilience. Monitoring outputs can help with detection but is reactive rather than preventative. The proactive solution highlighted in the study guide is adversarial training.
References:
AAISM Exam Content Outline - AI Risk Management (Backdoors and Hidden Triggers) AI Security Management Study Guide - Adversarial Training as a Mitigation Control

NEW QUESTION # 29
Which of the following BEST represents a combination of quantitative and qualitative metrics that can be used to comprehensively evaluate AI transparency?

- A. AI explainability reports and bias metrics
- B. AI ethical impact and user feedback metrics
- C. AI system availability and downtime metrics
- D. AI model complexity and accuracy metrics

Answer: B

Explanation:
The AAISM governance framework emphasizes that AI transparency cannot be evaluated using only technical statistics; it requires a combination of quantitative and qualitative metrics. The best pairing is ethical impact assessments (qualitative) with user feedback metrics (quantitative and perception-based). Availability and accuracy metrics measure performance, not transparency. Explainability reports and bias metrics are useful but still technical and limited. Comprehensive evaluation of transparency requires consideration of ethical dimensions and stakeholder perspectives, which is achieved through ethical impact analysis and user feedback.
References:
AAISM Study Guide - AI Governance and Program Management (Transparency and Accountability) ISACA AI Security Management - Measuring Ethical AI Practices

NEW QUESTION # 30
Which of the following is the BEST mitigation control for membership inference attacks on AI systems?

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

Answer: D

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 # 31
An organization concerned about the ethical and responsible use of a newly developed AI product should consider implementing:

- A. An accountability model
- B. Security by design
- C. Model cards
- D. Vendor monitoring

Answer: A

Explanation:
The AAISM framework highlights that organizations adopting AI must ensure accountability structures are in place to govern ethical and responsible use. An accountability model assigns clear responsibility for decisions, outputs, and risks related to AI systems. While model cards provide transparency about a model's design and performance, they are primarily documentation tools. Vendor monitoring focuses on third-party oversight, not internal accountability. Security by design improves resilience but does not by itself address ethical use. The governance approach that most directly supports responsible and ethical AI deployment is an accountability model.
References:
AAISM Study Guide - AI Governance and Program Management (Ethical AI and Accountability) ISACA AI Security Management - Responsible AI Practices

NEW QUESTION # 32
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. Use the latest version of all libraries from public repositories
- C. Scan the packages and libraries for malware prior to installation
- D. Retrain the model regularly to handle package and library updates

Answer: C

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 # 33
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