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ISACA AAISM Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">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 2	<ul style="list-style-type: none">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	<ul style="list-style-type: none">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.

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ISACA Advanced in AI Security Management (AAISM) Exam Sample Questions (Q49-Q54):

NEW QUESTION # 49

Which of the following types of testing can MOST effectively mitigate prompt hacking?

- A. Adversarial
- B. Load
- C. Regression
- D. Input

Answer: A

Explanation:

Prompt hacking manipulates large language models by injecting adversarial instructions into inputs to bypass or override safeguards. The AAISM framework identifies adversarial testing as the most effective way to simulate such manipulative attempts, expose vulnerabilities, and improve the resilience of controls. Load testing evaluates performance, input testing checks format validation, and regression testing validates functionality after changes. None of these directly address the manipulation of natural language inputs. Adversarial testing is therefore the correct approach to mitigate prompt hacking risks.

References:

AAISM Exam Content Outline - AI Risk Management (Testing and Assurance Practices) AI Security Management Study Guide - Adversarial Testing Against Prompt Manipulation

NEW QUESTION # 50

Which of the following BEST describes the role of transparency in AI?

- A. Persuading someone that the AI tool in use is beneficial and operates as expected
- B. Publishing AI mechanisms, data sources, and decision-making processes while making them openly available
- C. Talking through a decision tree to better understand how the algorithm made each of its choices
- D. Explaining the AI system in an understandable and logical way so reasons for decisions can be given

Answer: D

Explanation:

Transparency in AI is a governance principle requiring that systems be explainable to stakeholders in ways that are understandable and meaningful, enabling clear articulation of how decisions were reached and why.

Within an AI program, transparency supports accountability, auditability, and trust by ensuring that reasons for decisions can be communicated and scrutinized. Option C reflects this definition by focusing on intelligible, logical explanations of system behavior and decision rationale.

Option A is a narrow technique (model-specific interpretability for decision trees) and does not capture transparency as a broad governance requirement. Option B conflates transparency with full public disclosure; transparency does not require making all artifacts openly available. Option D is persuasion/advocacy, not transparency.

References: AI Security Management™ (AAISM) Body of Knowledge: "AI Governance- Transparency and Explainability," "Accountability and Assurance"; AAISM Study Guide: "Explainability Objectives and Stakeholder Communication," "Documentation for Decision Rationale."

NEW QUESTION # 51

Which of the following is the MOST critical key risk indicator (KRI) for an AI system?

- A. The rate of drift in the model
- B. The accuracy rate of the model

- C. The response time of the model
- D. The amount of data in the model

Answer: A

Explanation:

AAISM highlights that while accuracy and performance metrics are important, the rate of drift is the most critical KRI for AI systems. Model drift occurs when input data or environmental conditions shift, causing the system to degrade and produce unreliable outputs. This risk indicator directly reflects whether the AI continues to function as intended over time. Accuracy rates and response times are performance metrics, not primary risk signals. The amount of data in the model does not reliably indicate exposure to risk. Therefore, the greatest KRI for ongoing assurance and governance is the rate of drift.

References:

AAISM Study Guide - AI Risk Management (Monitoring and Drift Detection) ISACA AI Security Management - Key Risk Indicators for AI Systems

NEW QUESTION # 52

Which of the following AI data management techniques involves creating validation and test data?

- A. Learning
- B. Annotating
- C. Training
- D. **Splitting**

Answer: D

Explanation:

Data splitting partitions a labeled dataset into training, validation, and test subsets to enable unbiased model tuning and evaluation. Training (A) consumes the training split; annotating (B) adds labels; learning (D) is a general term for model optimization, not a data management step.

References: AI Security Management™ (AAISM) Body of Knowledge - Data Lifecycle Controls; Dataset Partitioning for Validation and Testing. AAISM Study Guide - Train/Validation/Test Splits and Evaluation Integrity.

NEW QUESTION # 53

An organization is implementing AI agent development across engineering teams. What should AI-specific training focus on?

- A. API abuse, data leakage, third-party plug-in risk
- B. **Prompt injection, agent memory control, insecure tool execution**
- C. Dataset bias, explainability, fairness
- D. Output moderation, hallucination handling, policy alignment

Answer: B

Explanation:

AAISM states that AI agent security training should focus on the unique risks of agentic systems, which include:

- * prompt injection
- * memory control and context hijacking
- * unsafe tool execution (agents triggering unauthorized actions)

These risks are specific to autonomous or semi-autonomous AI agents.

Bias, fairness (B) and output moderation (C) are important but not the most critical for agent security. API abuse and plug-in risk (D) matter but are secondary.

References: AAISM Study Guide - Agentic AI Security; Prompt Injection and Tool Execution Risks.

NEW QUESTION # 54

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