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ISACA Advanced in AI Security Management (AAISM) Exam Sample

Questions (Q128-Q133):

NEW QUESTION # 128

An aerospace manufacturing company that prioritizes accuracy and security has decided to use generative AI to enhance operations. Which of the following large language model (LLM) adoption plans BEST aligns with the company's risk appetite?

- A. Purchasing an LLM dataset on the open market
- **B. Developing a private LLM to automate non-critical functions**
- C. Contracting LLM access from a reputable third-party provider
- D. Developing a public LLM to automate critical functions

Answer: B

Explanation:

AAISM recommends aligning AI adoption with organizational risk appetite by limiting blast radius, protecting sensitive data, and staging adoption in lower-risk domains first. Building a private LLM for non-critical functions preserves data control, enables tighter governance (access control, logging, evaluation), and confines any model errors away from safety- or mission-critical operations. A public LLM for critical functions (A) is misaligned with a high-assurance posture; buying open-market datasets (B) raises provenance and licensing risk; third-party access (C) can be appropriate but still introduces vendor/visibility limits and data residency concerns that may not meet aerospace security needs.

References: AI Security Management (AAISM) Body of Knowledge - Risk Appetite Mapping to AI Use Cases; Criticality Segmentation; Data Control & Deployment Models. AAISM Study Guide - Phased Adoption for High-Assurance Environments; Private vs. Hosted LLM Trade-offs; Governance, Evaluation, and Containment Patterns.

NEW QUESTION # 129

When robust input controls cannot prevent prompt injections in an LLM, what is the BEST compensating control?

- A. Implement identity and access management (IAM)
- B. Fine-tune the system to validate inputs
- C. Conduct human reviews of AI system inputs
- **D. Review and annotate the AI system's outputs**

Answer: D

Explanation:

AAISM identifies output review and annotation as the most practical compensating control when robust input validation cannot be applied.

Output moderation detects:

- * maliciously influenced responses
- * unsafe outputs
- * security-policy violations

IAM (B) does not mitigate prompt injection itself. Human review of inputs (C) is unrealistic at scale. Fine-tuning (A) cannot guarantee full prevention.

References: AAISM Study Guide - Generative AI Safeguards; Output Moderation Controls.

NEW QUESTION # 130

Which of the following is the MOST critical success factor for an AI implementation project?

- A. Ensuring AI risk is captured in the risk register
- **B. Obtaining senior management buy-in**
- C. Mapping data throughout the life cycle
- D. Developing and using model cards

Answer: B

Explanation:

AAISM identifies executive sponsorship and senior management buy-in as the foremost success factor for AI initiatives. It secures resources, resolves cross-functional conflicts, sets risk appetite, and enforces adherence to governance and controls. Model cards (A), risk registers (B), and lifecycle data mapping (C) are vital practices within the program, but without top-level commitment,

adoption, funding, and accountability often fail.

References: AI Security Management (AAISM) Body of Knowledge - AI Program Governance; Executive Sponsorship & Accountability; Strategy-to-Control Alignment for Successful AI Delivery.

NEW QUESTION # 131

An automotive manufacturer uses AI-enabled sensors on machinery to monitor variables such as vibration, temperature, and pressure. Which of the following BEST demonstrates how this approach contributes to operational resilience?

- A. Scheduling repairs for critical equipment based on real-time condition monitoring
- B. Automating equipment repairs without any human intervention
- C. Conducting monthly manual reviews of maintenance schedules
- D. Performing regular maintenance based on manufacturer recommendations

Answer: A

Explanation:

AAISM highlights that AI-enabled predictive maintenance improves operational resilience by using real-time sensor monitoring to schedule repairs based on actual conditions rather than fixed schedules. This prevents unexpected breakdowns, reduces downtime, and ensures continuity of operations. Regular maintenance based on recommendations is static and may not reflect real conditions. Manual reviews are slow and inefficient.

Full automation of repairs without human oversight is not realistic or safe in critical manufacturing. The approach that best demonstrates resilience is real-time condition-based repair scheduling.

References:

AAISM Study Guide - AI Risk Management (Operational Resilience and Predictive Maintenance) ISACA AI Security Management - AI for Critical Infrastructure Reliability

NEW QUESTION # 132

Which of the following is the MOST effective defense against cyberattacks that alter input data to avoid detection by the model?

- A. Enhancing model robustness through adversarial training
- B. Applying differential privacy controls on training datasets
- C. Implementing restricted access to the model's internal parameters
- D. Conducting periodic monitoring activities on the model's decisions

Answer: A

Explanation:

Evasion attacks manipulate inputs to induce misclassification while leaving the model unchanged. AAISM prescribes adversarial robustness controls, with adversarial training as a primary measure: incorporate adversarially perturbed examples into training/validation to harden decision boundaries and improve resilience across threat models (e.g., L_p-bounded perturbations). Monitoring (A) is detective, not preventive.

Restricting parameter access (C) protects confidentiality but does not mitigate input-space attacks.

Differential privacy (D) addresses training data leakage, not robustness to adversarial inputs.

References: AI Security Management™ (AAISM) Body of Knowledge: Adversarial ML-Evasion vs.

Poisoning; Robustness and Resilience Controls; Adversarial Training. AAISM Study Guide: Model Hardening Techniques; Evaluation of Robust Accuracy; Security Testing with Adversarial Examples.

NEW QUESTION # 133

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