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ISACA Advanced in AI Security Management (AAISM) Exam Sample Questions (Q229-Q234):

NEW QUESTION # 229

Which AI model is BEST suited to ensure explainability in an HR department's pre-screening tool for candidate resumes?

- A. Decision tree
- B. Neural network
- C. Gradient boosting machine

- D. Support vector machine

Answer: A

Explanation:

According to AAISM, decision trees provide the highest explainability because their structure clearly shows how inputs map to decisions. This is essential in HR applications subject to fairness, bias, and compliance requirements.

SVMs (A) and gradient boosting (D) are less interpretable. Neural networks (B) are explicitly listed as low- explainability models.

References: AAISM Study Guide - Explainability and Transparency Requirements; Interpretable ML Models.

NEW QUESTION # 230

A financial institution plans to deploy an AI system to provide credit risk assessments for loan applications.

Which of the following should be given the HIGHEST priority in the system's design to ensure ethical decision-making and prevent bias?

- A. Restrict the model's decision-making criteria to objective financial metrics only.
- **B. Train the system to provide advisory outputs with final decisions made by human experts.**
- C. Integrate a mechanism for customers to appeal decisions directly within the system.
- D. Regularly update the model with new customer data to improve prediction accuracy.

Answer: B

Explanation:

In AI governance frameworks, credit scoring is treated as a high-risk application. For such systems, the highest-priority safeguard is human oversight to ensure fairness, accountability, and prevention of bias in automated decisions.

The AI Security Management™ (AAISM) domain of AI Governance and Program Management emphasizes that high-impact AI systems require explicit governance structures and human accountability. Human-in-the- loop design ensures that final decisions remain the responsibility of human experts rather than being fully automated. This is particularly critical in financial contexts, where biased outputs can affect individuals' access to credit and create compliance risks.

Official ISACA AI governance guidance specifies:

High-risk AI systems must comply with strict requirements, including human oversight, transparency, and fairness.

The purpose of human oversight is to reduce risks to fundamental rights by ensuring humans can intervene or override an automated decision.

Bias controls are strengthened by requiring human review processes that can analyze outputs and prevent unfair discrimination.

Why other options are not the highest priority:

A). Regular updates improve accuracy but do not guarantee fairness or ethical decision-making. Model drift can introduce new bias if not governed properly.

B). Appeals mechanisms are important for accountability, but they operate after harm has occurred.

Governance frameworks emphasize prevention through human oversight in the decision loop.

D). Restricting criteria to "objective metrics" is insufficient, as even objective data can contain hidden proxies for protected attributes.

Bias mitigation requires monitoring, testing, and human oversight, not only feature restriction.

AAISM Domain Alignment:

Domain 1 - AI Governance and Program Management: Ensures accountability, ethical oversight, and governance structures.

Domain 2 - AI Risk Management: Identifies and mitigates risks such as bias, discrimination, and lack of transparency.

Domain 3 - AI Technologies and Controls: Provides the technical enablers for implementing oversight mechanisms and bias detection tools.

References from AAISM and ISACA materials:

AAISM Exam Content Outline - Domain 1: AI Governance and Program Management (roles, responsibilities, oversight).

ISACA AI Governance Guidance (human oversight as mandatory in high-risk AI applications).

Bias and Fairness Controls in AI (human review and intervention as a primary safeguard).

NEW QUESTION # 231

A financial organization uses AI to detect potential fraudulent activities but is concerned about the impact of potential data poisoning. Which of the following controls would BEST mitigate this risk?

- A. Implementing an updated and tested break-glass policy
- B. Delivering AI-specific security awareness training
- **C. Using training data from multiple sources**
- D. Being transparent with customers about the data sources

Answer: C

Explanation:

AAISM identifies training-data diversity and provenance assurance as primary treatments against data poisoning. Sourcing data from multiple, independently governed providers, combined with ingestion validation and anomaly screening, reduces the chance that a single compromised source can skew model behavior and improves cross-source consistency checks. Transparency, break-glass, and awareness are valuable but do not directly reduce poisoning exposure at the training boundary.

References: AI Security Management (AAISM) Body of Knowledge - Data Governance & Integrity for AI; Adversarial ML: Poisoning Threats and Mitigations; Supplier and Source Diversification Controls.

NEW QUESTION # 232

Which AI data management technique involves creating validation and test data?

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

Answer: D

Explanation:

AAISM describes data splitting as the process of dividing datasets into:

- * training
- * validation
- * test sets

This is essential for reducing overfitting and ensuring robust evaluation.

Learning (A) refers to model training. Annotating (B) labels data. Training (C) does not create validation/test data.

References: AAISM Study Guide - AI Data Preparation & Dataset Splitting.

NEW QUESTION # 233

A security assessment revealed that attackers could access sensitive company data through chat interface injection. What is the BEST mitigation?

- **A. Implementing input validation and templates**
- B. Manually reviewing AI model outputs
- C. Conducting regular security audits
- D. Ensuring continuous monitoring and tagging

Answer: A

Explanation:

AAISM explains that prompt injection attacks are best mitigated by:

- * strict input validation
- * templated prompts
- * controlled context windows
- * guardrail enforcement

These prevent malicious instructions from overriding system prompts.

Audits (A) are periodic, not preventive. Manual review (B) is not scalable. Monitoring (D) detects issues but does not block injection.

References: AAISM Study Guide - Prompt Injection & Input Control Mechanisms.

NEW QUESTION # 234

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