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SISA CSPAI Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Securing AI Models and Data: This section of the exam measures skills of the Cybersecurity Risk Manager and focuses on the protection of AI models and the data they consume or generate. Topics include adversarial attacks, data poisoning, model theft, and encryption techniques that help secure the AI lifecycle.
Topic 2	<ul style="list-style-type: none">Evolution of Gen AI and Its Impact: This section of the exam measures skills of the AI Security Analyst and covers how generative AI has evolved over time and the implications of this evolution for cybersecurity. It focuses on understanding the broader impact of Gen AI technologies on security operations, threat landscapes, and risk management strategies.
Topic 3	<ul style="list-style-type: none">AIMS and Privacy Standards: ISO 42001 and ISO 27563: This section of the exam measures skills of the AI Security Analyst and addresses international standards related to AI management systems and privacy. It reviews compliance expectations, data governance frameworks, and how these standards help align AI implementation with global privacy and security regulations.

SISA Certified Security Professional in Artificial Intelligence Sample Questions (Q16-Q21):

NEW QUESTION # 16

What is a key benefit of using GenAI for security analytics?

- A. Reducing the use of analytics tools to save costs.
- B. Limiting analysis to historical data only.
- C. Increasing data silos to protect information.
- **D. Predicting future threats through pattern recognition in large datasets.**

Answer: D

Explanation:

GenAI revolutionizes security analytics by mining massive datasets for patterns, predicting emerging threats like zero-day attacks through generative modeling. It synthesizes insights from disparate sources, enabling proactive defenses and anomaly detection with high precision. This foresight allows organizations to allocate resources effectively, preventing breaches before they occur. In practice, it integrates with SIEM systems for enhanced threat hunting. The benefit lies in transforming reactive security into predictive, bolstering posture against sophisticated adversaries. Exact extract: "A key benefit of GenAI in security analytics is predicting future threats via pattern recognition, improving proactive security measures." (Reference: Cyber Security for AI by SISA Study Guide, Section on Predictive Analytics with GenAI, Page 220-223).

NEW QUESTION # 17

In a financial technology company aiming to implement a specialized AI solution, which approach would most effectively leverage existing AI models to address specific industry needs while maintaining efficiency and accuracy?

- A. Using a general Large Language Model (LLM) without adaptation, relying solely on its broad capabilities to handle financial tasks.
- B. Integrating multiple separate Domain-Specific GenAI models for various financial functions without using a foundational model for consistency
- C. Building a new, from scratch Domain-Specific GenAI model for financial tasks without leveraging preexisting models.
- **D. Adopting a Foundation Model as the base and fine-tuning it with domain-specific financial data to enhance its capabilities for forecasting and risk assessment.**

Answer: D

Explanation:

Leveraging foundation models like GPT or BERT for fintech involves fine-tuning with sector-specific data, such as transaction logs or market trends, to tailor for tasks like risk prediction, ensuring high accuracy without the overhead of scratch-building. This approach maintains efficiency by reusing pretrained weights, reducing training time and resources in SDLC, while domain adaptation mitigates generalization issues. It outperforms unadapted general models or fragmented specifics by providing cohesive, scalable solutions.

Security is enhanced through controlled fine-tuning datasets. Exact extract: "Adopting a Foundation Model and fine-tuning with domain-specific data is most effective for leveraging existing models in fintech, balancing efficiency and accuracy." (Reference: Cyber Security for AI by SISA Study Guide, Section on Model Adaptation in SDLC, Page 105-108).

NEW QUESTION # 18

In a Retrieval-Augmented Generation (RAG) system, which key step is crucial for ensuring that the generated response is contextually accurate and relevant to the user's question?

- A. Integrating advanced search algorithms to ensure the retrieval of highly relevant documents for context.
- B. Leveraging a diverse set of data sources to enrich the response with varied perspectives
- **C. Retrieving relevant information from the vector database before generating a response**
- D. Utilizing feedback mechanisms to continuously improve the relevance of responses based on user interactions.

Answer: C

Explanation:

In RAG systems, retrieving relevant information from a vector database before generation is pivotal, as it grounds responses in verified, contextually aligned data. Using embeddings and similarity metrics, the system fetches documents matching the query's intent, ensuring accuracy and relevance. While diverse sources or feedback aid long-term improvement, the retrieval step directly drives contextual fidelity, streamlining SDLC by modularizing data access. Exact extract: "Retrieving relevant information from the vector database is crucial for ensuring contextually accurate responses in RAG systems." (Reference: Cyber Security for AI by

NEW QUESTION # 19

What aspect of privacy does ISO 27563 emphasize in AI data processing?

- A. Consent management and data minimization principles.
- B. Storing all data indefinitely for auditing.
- C. Maximizing data collection for better AI performance.
- D. Sharing data freely among AI systems.

Answer: A

Explanation:

ISO 27563 stresses consent management, ensuring informed user agreement, and data minimization, collecting only necessary data to reduce privacy risks in AI processing. These principles prevent overreach and support ethical data handling. Exact extract: "ISO 27563 emphasizes consent management and data minimization in AI data processing for privacy." (Reference: Cyber Security for AI by SISA Study Guide, Section on Privacy Principles in ISO 27563, Page 275-278).

NEW QUESTION # 20

Which of the following is a primary goal of enforcing Responsible AI standards and regulations in the development and deployment of LLMs?

- A. Focusing solely on improving the speed and scalability of AI systems
- B. Developing AI systems with the highest accuracy regardless of data privacy concerns
- C. Maximizing model performance while minimizing computational costs.
- D. Ensuring that AI systems operate safely, ethically, and without causing harm.

Answer: D

Explanation:

Responsible AI standards, including ISO 42001 for AI management systems, aim to promote ethical development, ensuring safety, fairness, and harm prevention in LLM deployments. This encompasses bias mitigation, transparency, and accountability, aligning with societal values. Regulations like the EU AI Act reinforce this by categorizing risks and mandating safeguards. The goal transcends performance to foster trust and sustainability, addressing issues like discrimination or misuse. Exact extract: "The primary goal is to ensure AI systems operate safely, ethically, and without causing harm, as outlined in standards like ISO 42001." (Reference: Cyber Security for AI by SISA Study Guide, Section on Responsible AI and ISO Standards, Page 150-153).

NEW QUESTION # 21

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