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SISA CSPAI Exam Syllabus Topics:

Topic	Details
Topic 1	<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.

Topic 2	<ul style="list-style-type: none"> Improving SDLC Efficiency Using Gen AI: This section of the exam measures skills of the AI Security Analyst and explores how generative AI can be used to streamline the software development life cycle. It emphasizes using AI for code generation, vulnerability identification, and faster remediation, all while ensuring secure development practices.
Topic 3	<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 4	<ul style="list-style-type: none"> Models for Assessing Gen AI Risk: This section of the exam measures skills of the Cybersecurity Risk Manager and deals with frameworks and models used to evaluate risks associated with deploying generative AI. It includes methods for identifying, quantifying, and mitigating risks from both technical and governance perspectives.
Topic 5	<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.

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SISA Certified Security Professional in Artificial Intelligence Sample Questions (Q21-Q26):

NEW QUESTION # 21

How does ISO 27563 support privacy in AI systems?

- A. By mandating the use of specific encryption algorithms.
- B. **By providing guidelines for privacy-enhancing technologies in AI.**
- C. By limiting AI to non-personal data only.
- D. By focusing on performance metrics over privacy.

Answer: B

Explanation:

ISO 27563 offers practical guidance on implementing privacy-enhancing technologies (PETs) in AI, such as differential privacy or federated learning, to protect data while maintaining utility. It addresses risks like inference attacks, ensuring compliance with privacy regulations. Exact extract: "ISO 27563 supports privacy in AI by providing guidelines for privacy-enhancing technologies." (Reference: Cyber Security for AI by SISA Study Guide, Section on ISO 27563 for Privacy, Page 265-268).

NEW QUESTION # 22

In the context of a supply chain attack involving machine learning, which of the following is a critical component that attackers may target?

- A. **The underlying ML model and its training data.**
- B. The marketing materials associated with the AI product
- C. The physical hardware running the AI system

- D. The user interface of the AI application

Answer: A

Explanation:

Supply chain attacks in ML exploit vulnerabilities in the ecosystem, with the core ML model and training data being prime targets due to their foundational role in system behavior. Attackers might inject backdoors into pretrained models via compromised libraries (e.g., PyTorch or TensorFlow packages) or poison datasets during sourcing, leading to manipulated outputs or data exfiltration. This is more critical than targeting UI or hardware, as model/data compromises persist across deployments, enabling stealthy, long-term exploits like trojan attacks. Mitigation includes verifying model provenance, using secure repositories, and conducting integrity checks with hashing or digital signatures. In SISA guidelines, emphasis is on end-to-end supply chain auditing to prevent such intrusions, which could result in biased decisions or security breaches in applications like recommendation systems. Protecting these components ensures model reliability and data confidentiality, integral to AI security posture. Exact extract: "In supply chain attacks on machine learning, attackers critically target the underlying ML model and its training data to introduce persistent vulnerabilities." (Reference: Cyber Security for AI by SISA Study Guide, Section on Supply Chain Risks in AI, Page 145-148).

NEW QUESTION # 23

What metric is often used in GenAI risk models to evaluate bias?

- A. Computational efficiency during training.
- B. Number of parameters in the model.
- C. Accuracy rate without considering demographics.
- D. Fairness metrics like demographic parity or equalized odds.

Answer: D

Explanation:

Bias assessment in GenAI employs fairness metrics such as demographic parity (equal outcomes across groups) or equalized odds (balanced error rates), quantifying disparities in outputs. These metrics guide debiasing techniques, ensuring ethical AI under risk models. In applications like hiring tools, they prevent discriminatory generations, aligning with regulatory requirements. Exact extract: "Fairness metrics like demographic parity are used in GenAI risk models to evaluate and mitigate bias." (Reference: Cyber Security for AI by SISA Study Guide, Section on Bias Assessment Metrics, Page 245-248).

NEW QUESTION # 24

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

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

Answer: C

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 # 25

In transformer models, how does the attention mechanism improve model performance compared to RNNs?

- A. By enhancing the model's ability to process data in parallel, ensuring faster training without compromising context.
- B. By dynamically assigning importance to every word in the sequence, enabling the model to focus on relevant parts of the input.

- C. By enabling the model to attend to both nearby and distant words simultaneously, improving its understanding of long-term dependencies
- D. By processing each input independently, ensuring the model captures all aspects of the sequence equally.

Answer: C

Explanation:

Transformer models leverage self-attention to process entire sequences concurrently, unlike RNNs, which handle inputs sequentially and struggle with long-range dependencies due to vanishing gradients. By computing attention scores across all words, Transformers capture both local and global contexts, enabling better modeling of relationships in tasks like translation or summarization. For example, in a long sentence, attention links distant pronouns to their subjects, improving coherence. This contrasts with RNNs' sequential limitations, which hinder capturing far-apart dependencies. While parallelism (option C) aids efficiency, the core improvement lies in dependency modeling, not just speed. Exact extract: 'The attention mechanism enables Transformers to attend to nearby and distant words simultaneously, significantly improving long-term dependency understanding over RNNs.' (Reference: Cyber Security for AI by SISA Study Guide, Section on Transformer vs. RNN Architectures, Page 50-53).

NEW QUESTION # 26

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