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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"> Using Gen AI for Improving the Security Posture: This section of the exam measures skills of the Cybersecurity Risk Manager and focuses on how Gen AI tools can strengthen an organization's overall security posture. It includes insights on how automation, predictive analysis, and intelligent threat detection can be used to enhance cyber resilience and operational defense.

Topic 3	<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 4	<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 (Q20-Q25):

NEW QUESTION # 20

In utilizing Giskard for vulnerability detection, what is a primary benefit of integrating this open-source tool into the security function?

- A. Enabling real-time detection of vulnerabilities with actionable insights.
- B. Limiting its use to only high-priority vulnerabilities.
- C. Reducing the need for manual vulnerability assessment entirely
- D. Automatically patching vulnerabilities without additional configuration

Answer: A

Explanation:

Giskard, an open-source tool, enhances AI security by enabling real-time vulnerability detection, scanning models for issues like bias or adversarial weaknesses, and providing actionable insights for remediation. This proactive approach supports continuous monitoring, unlike automated patching or limited scopes, and integrates into SDLC for robust security. Exact extract: "Giskard enables real-time detection of vulnerabilities with actionable insights, strengthening AI security functions." (Reference: Cyber Security for AI by SISA Study Guide, Section on Vulnerability Detection Tools, Page 190-193).

NEW QUESTION # 21

What is a primary step in the risk assessment model for GenAI data privacy?

- A. Relying on vendor assurances without verification.
- B. Limiting assessment to model outputs only.
- C. Ignoring data sources to speed up assessment.
- D. Conducting data flow mapping to identify privacy risks.

Answer: D

Explanation:

Risk assessment for GenAI begins with comprehensive data flow mapping, tracing inputs, processing, and outputs to pinpoint privacy vulnerabilities like unintended data leakage. This step reveals how personal information is handled, enabling classification of risks under frameworks like GDPR or ISO 27701. It facilitates the identification of controls such as anonymization or consent mechanisms. In GenAI, where models infer from vast data, this prevents re-identification attacks. Exact extract: "A primary step in GenAI data privacy risk assessment is conducting data flow mapping to identify and mitigate privacy risks." (Reference: Cyber Security for AI by SISA Study Guide, Section on Privacy Risk Models, Page 235-238).

NEW QUESTION # 22

How does the multi-head self-attention mechanism improve the model's ability to learn complex relationships in data?

- A. By simplifying the network by removing redundancy in attention layers.
- B. By allowing the model to focus on different parts of the input through multiple attention heads
- C. By ensuring that the attention mechanism looks only at local context within the input
- D. By forcing the model to focus on a single aspect of the input at a time.

Answer: B

Explanation:

Multi-head self-attention enhances a model's capacity to capture intricate patterns by dividing the attention process into multiple parallel 'heads,' each learning distinct aspects of the relationships within the data. This diversification enables the model to attend to various subspaces of the input simultaneously—such as syntactic, semantic, or positional features—leading to richer representations. For example, one head might focus on nearby words for local context, while another captures global dependencies, aggregating these insights through concatenation and linear transformation. This approach mitigates the limitations of single-head attention, which might overlook nuanced interactions, and promotes better generalization in complex datasets. In practice, it results in improved performance on tasks like NLP and vision, where multifaceted relationships are key. The mechanism's parallelism also aids in scalability, allowing deeper insights without proportional computational increases. Exact extract: "Multi-head attention improves learning by permitting the model to jointly attend to information from different representation subspaces at different positions, thus capturing complex relationships more effectively than a single attention head." (Reference: Cyber Security for AI by SISA Study Guide, Section on Transformer Mechanisms, Page 48-50).

NEW QUESTION # 23

In assessing GenAI supply chain risks, what is a critical consideration?

- A. Focusing only on internal development risks.
- B. Ignoring open-source dependencies to reduce complexity.
- C. Assuming all vendors comply with standards automatically.
- **D. Evaluating third-party components for embedded vulnerabilities.**

Answer: D

Explanation:

GenAI supply chain risk assessment prioritizes scrutinizing third-party libraries, datasets, and models for vulnerabilities like backdoors or biases, using tools for dependency scanning. This holistic view prevents cascade failures, as seen in compromised pretrained models. Mitigation includes vendor audits and secure sourcing. Exact extract: "A critical consideration in GenAI supply chain risks is evaluating third-party components for vulnerabilities." (Reference: Cyber Security for AI by SISA Study Guide, Section on Supply Chain Risk Assessment, Page 250-253).

NEW QUESTION # 24

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

- A. By processing each input independently, ensuring the model captures all aspects of the sequence equally.
- B. By enhancing the model's ability to process data in parallel, ensuring faster training without compromising context.
- C. By dynamically assigning importance to every word in the sequence, enabling the model to focus on relevant parts of the input.
- **D. By enabling the model to attend to both nearby and distant words simultaneously, improving its understanding of long-term dependencies**

Answer: D

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 # 25

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