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SISA CSPAI Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 3	• 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 4	• 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 5	• 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 (Q47-Q52):

NEW QUESTION # 47
In a machine translation system where context from both early and later words in a sentence is crucial, a team is considering moving from RNN-based models to Transformer models. How does the self-attention mechanism in Transformer architecture support this task?

- A. By processing words in strict sequential order, which is essential for capturing meaning
- B. By assigning a constant weight to each word, ensuring uniform translation output
- C. By considering all words in a sentence equally and simultaneously, allowing the model to establish long-range dependencies.
- D. By focusing only on the most recent word in the sentence to speed up translation

Answer: C

Explanation:
The self-attention mechanism in Transformer models revolutionizes machine translation by enabling the model to weigh the importance of different words in a sentence relative to each other, regardless of their position. Unlike RNN-based models, which process sequences sequentially and often struggle with long-range dependencies due to vanishing gradients, Transformers use self-attention to compute representations of all words in parallel. This allows the model to capture contextual relationships between distant words effectively, such as linking pronouns to their antecedents across long sentences. For instance, in translating a sentence where the meaning depends on both the beginning and end, self-attention assigns dynamic weights based on query, key, and value matrices, facilitating a global view of the input. This parallelism not only improves accuracy in tasks requiring comprehensive context but also enhances training efficiency. The mechanism supports bidirectional context understanding, making it superior for natural language processing tasks like translation. Exact extract: "The self-attention mechanism allows the model to consider all positions in the input sequence simultaneously, establishing long-range dependencies that are critical for context-heavytasks like machine translation, unlike sequential RNN processing." (Reference: Cyber Security for AI by SISA Study Guide, Section on Evolution of AI Architectures, Page 45-47).

NEW QUESTION # 48
What is a key concept behind developing a Generative AI (GenAI) Language Model (LLM)?

- A. Human intervention for every decision
- B. Rule-based programming
- C. Operating only in supervised environments
- D. Data-driven learning with large-scale datasets

Answer: D

Explanation:
GenAI LLMs rely on data-driven learning, leveraging vast datasets to model language patterns, semantics, and contexts through unsupervised or semi-supervised methods. This enables scalability and adaptability, unlike rule-based systems or human-dependent

approaches. Large datasets drive generalization, though they introduce security challenges like data quality control. Exact extract: "A key concept of GenAI LLMs is data- driven learning with large-scale datasets, enabling robust language modeling." (Reference: Cyber Security for AI by SISA Study Guide, Section on GenAI Development Principles, Page 60-63).

NEW QUESTION # 49
What is a key benefit of using GenAI for security analytics?

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

Answer: B

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 # 50
In assessing GenAI supply chain risks, what is a critical consideration?

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

Answer: A

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 # 51
What is a potential risk associated with hallucinations in LLMs, and how should it be addressed to ensure Responsible AI?

- A. Hallucinations cause models to slow down; optimizing hardware performance is necessary to mitigate this issue.
- B. Hallucinations can lead to creative outputs, which are beneficial for all applications; hence, no measures are necessary.
- C. Hallucinations are primarily due to overfitting; regularization techniques should be applied during training.
- D. Hallucinations can produce inaccurate or misleading information; it should be addressed by incorporating external knowledge bases and retrieval systems.

Answer: D

Explanation:
Hallucinations in LLMs risk generating inaccurate or misleading outputs, undermining trust and safety.
Incorporating external knowledge bases and retrieval systems, like RAG, grounds responses in verified data, reducing fabrications and aligning with Responsible AI principles. Regularization helps but is secondary to factual grounding. Exact extract: "Hallucinations produce misleading information, addressed by incorporating external knowledge bases and retrieval systems for Responsible AI." (Reference: Cyber Security for AI by SISA Study Guide, Section on LLM Hallucination Mitigation, Page 125-128).

NEW QUESTION # 52

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