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SISA CSPAI Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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 3	• 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	• 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.

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SISA Certified Security Professional in Artificial Intelligence Sample Questions (Q32-Q37):

NEW QUESTION # 32
What is a potential risk of LLM plugin compromise?

- A. Reduced model training time
- B. Improved model accuracy
- C. Better integration with third-party tools
- D. Unauthorized access to sensitive information through compromised plugins

Answer: D

Explanation:
LLM plugin compromises occur when extensions or integrations, like API-connected tools in systems such as ChatGPT plugins, are exploited, leading to unauthorized data access or injection attacks. Attackers might hijack plugins to leak user queries, training data, or system prompts, breaching privacy and enabling further escalations like lateral movement in networks. This risk is amplified in open ecosystems where plugins handle sensitive operations, necessitating vetting, sandboxing, and encryption. Unlike benefits like accuracy gains, compromises erode trust and invite regulatory penalties. Mitigation strategies include regular vulnerability scans, least-privilege access, and monitoring for anomalous plugin behavior. In AI security, this highlights the need for robust plugin architectures to prevent cascade failures. Exact extract: "A potential risk of LLM plugin compromise is unauthorized access to sensitive information, which can lead to data breaches and privacy violations." (Reference: Cyber Security for AI by SISA Study Guide, Section on Plugin Security in LLMs, Page 155-158).

NEW QUESTION # 33
Which framework is commonly used to assess risks in Generative AI systems according to NIST?

- A. Focusing solely on financial risks associated with AI deployment.
- B. Using outdated models from traditional software risk assessment.
- C. A general IT risk assessment without AI-specific considerations.
- D. The AI Risk Management Framework (AI RMF) for evaluating trustworthiness.

Answer: D

Explanation:
The NIST AI Risk Management Framework (AI RMF) provides a structured approach to identify, assess, and mitigate risks in GenAI, emphasizing trustworthiness attributes like safety, fairness, and explainability. It categorizes risks into governance, mapping, measurement, and management phases, tailored for AI lifecycles.
For GenAI, it addresses unique risks such as hallucinations or bias amplification. Organizations apply it to conduct impact assessments and implement controls, ensuring compliance and ethical deployment. Exact extract: "NIST's AI RMF is commonly used to assess risks in Generative AI, focusing on trustworthiness and lifecycle management." (Reference: Cyber Security for AI by SISA Study Guide, Section on NIST Frameworks for AI Risk, Page 230-233).

NEW QUESTION # 34
When integrating LLMs using a Prompting Technique, what is a significant challenge in achieving consistent performance across diverse applications?

- A. Overcoming the lack of transparency in understanding how the LLM interprets varying prompt structures.
- B. Handling the security concerns that arise from dynamically generated prompts
- C. The need for optimizing prompt templates to ensure generalization across different contexts.
- D. Reducing latency in generating responses to meet real-time application requirements.

Answer: C

Explanation:

Prompting techniques in LLM integration, such as zero-shot or few-shot prompting, face challenges in consistency due to the need for meticulously optimized templates that generalize across tasks. Variations in prompt phrasing can lead to unpredictable outputs, requiring iterative engineering to balance specificity and flexibility, especially in diverse domains like legal or medical apps. This optimization involves A/B testing, semantic alignment, and incorporating chain-of-thought to enhance reasoning, but it demands expertise and time in SDLC phases. Unlike latency issues, which are hardware-related, prompt optimization directly affects performance reliability. Security overlaps, as poor prompts might expose vulnerabilities, but the core challenge is generalization. Efficient SDLC uses automated prompt tuning tools to streamline this, reducing development overhead while maintaining efficacy. Exact extract: "A significant challenge is optimizing prompt templates to ensure generalization across different contexts, crucial for consistent LLM performance in varied applications." (Reference: Cyber Security for AI by SISA Study Guide, Section on Prompting in SDLC, Page 100-103).

NEW QUESTION # 35
What does the OCTAVE model emphasize in GenAI risk assessment?

- A. Operational Critical Threat, Asset, and Vulnerability Evaluation focused on organizational risks.
- B. Solely technical vulnerabilities in AI models.
- C. Exclusion of stakeholder input in assessments.
- D. Short-term tactical responses over strategic planning.

Answer: A

Explanation:
OCTAVE adapts to GenAI by emphasizing organizational risk perspectives, identifying critical assets like models and data, evaluating threats, and prioritizing mitigations through stakeholder collaboration. It fosters a strategic, enterprise-wide approach to AI risks, integrating business impacts. Exact extract: "OCTAVE emphasizes operational critical threat, asset, and vulnerability evaluation in GenAI risk assessment." (Reference: Cyber Security for AI by SISA Study Guide, Section on OCTAVE for AI, Page 255-258).

NEW QUESTION # 36
In transformer models, how does the attention mechanism improve model performance compared to RNNs?

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

Answer: A

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 # 37
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