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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	• 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	• 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.

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SISA Certified Security Professional in Artificial Intelligence Sample Questions (Q31-Q36):

NEW QUESTION # 31
In a time-series prediction task, how does an RNN effectively model sequential data?

- A. By focusing on the overall sequence structure rather than individual time steps for a more holistic approach.
- B. By processing each time step independently, optimizing the model's performance over time.
- C. By storing only the most recent time step, ensuring efficient memory usage for real-time predictions
- D. By using hidden states to retain context from prior time steps, allowing it to capture dependencies across the sequence.

Answer: D

Explanation:
RNNs model sequential data in time-series tasks by maintaining hidden states that propagate information across time steps, capturing temporal dependencies like trends or seasonality. This memory mechanism allows RNNs to learn from past data, unlike independent processing or holistic approaches, though they face gradient issues for long sequences. Exact extract: "RNNs use hidden states to retain context from prior time steps, effectively capturing dependencies in sequential data for time-series tasks." (Reference: Cyber Security for AI by SISA Study Guide, Section on RNN Architectures, Page 40-43).

NEW QUESTION # 32
For effective AI risk management, which measure is crucial when dealing with penetration testing and supply chain security?

- A. Perform occasional penetration testing and only address vulnerabilities in the internal network.
- B. Conduct comprehensive penetration testing and continuously evaluate both internal systems and third- party components in the supply chain.
- C. Prioritize external audits over internal penetration testing to assess supply chain security.
- D. Implement penetration testing only for high-risk components and ignore less critical ones

Answer: B

Explanation:
Effective AI risk management requires comprehensive penetration testing and continuous evaluation of both internal and third-party supply chain components to identify vulnerabilities like backdoors or weak APIs. This holistic approach, aligned with SISA risk models, ensures robust security across the AI ecosystem, unlike limited or external-only testing. Exact extract: "Comprehensive penetration testing and continuous evaluation of internal and third-party components are crucial for AI risk management." (Reference: Cyber Security for AI by SISA Study Guide, Section on AI Risk Assessment Models, Page 180-183).

NEW QUESTION # 33
In a scenario where Open-Source LLMs are being used to create a virtual assistant, what would be the most effective way to ensure the assistant is continuously improving its interactions without constant retraining?

- A. Training a larger proprietary model to replace the open-source LLM
- B. Reducing the amount of feedback integrated to speed up deployment.
- C. Implementing reinforcement learning from human feedback (RLHF) to refine responses based on user input.
- D. Shifting the assistant to a completely rule-based system to avoid reliance on user feedback.

Answer: C

Explanation:
For continuous improvement in open-source LLM-based virtual assistants, RLHF integrates human evaluations to align model outputs with preferences, iteratively refining behavior without full retraining. This method uses reward models trained on feedback to guide policy optimization, enhancing interaction quality over time. It addresses limitations like initial biases or suboptimal responses by leveraging real-world user inputs, making the system adaptive and efficient. Unlike full retraining, RLHF is parameter-efficient and scalable, ideal for production environments. Security benefits include monitoring feedback for adversarial attempts. Exact extract: "Implementing RLHF allows continuous refinement of the assistant's interactions based on user feedback, avoiding the need for constant full retraining while improving performance." (Reference: Cyber Security for AI by SISA Study Guide, Section on AI Improvement Techniques in SDLC, Page 85-88).

NEW QUESTION # 34
What is a key benefit of using GenAI for security analytics?

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

Answer: C

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 # 35
How does machine learning improve the accuracy of predictive models in finance?

- A. By using historical data patterns to make predictions without updates
- B. By avoiding any use of past data and focusing solely on current trends
- C. By relying exclusively on manual adjustments and human input for predictions.
- D. By continuously learning from new data patterns to refine predictions

Answer: D

Explanation:
Machine learning enhances financial predictive models by continuously learning from new data, refining predictions for tasks like fraud detection or market forecasting. This adaptability leverages evolving patterns, unlike static historical or manual methods, and improves security posture through real-time anomaly detection. Exact extract: "ML improves financial predictive accuracy by continuously learning from new data patterns to refine predictions." (Reference: Cyber Security for AI by SISA Study Guide, Section on ML in Financial Security, Page 85-88).

NEW QUESTION # 36
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