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Cost-Effective SISA CSPAI Exam [2026]

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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">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	<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 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"> • 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.

SISA Certified Security Professional in Artificial Intelligence Sample Questions (Q50-Q55):

NEW QUESTION # 50

How does AI enhance customer experience in retail environments?

- A. By ensuring every customer receives the same generic response from automated systems.
- **B. By integrating personalized interactions with AI-driven analytics for a more customized shopping experience.**
- C. By automating repetitive tasks and providing consistent data driven insights to improve customer service.
- D. By optimizing customer service through automated systems and tailored recommendations.

Answer: B

Explanation:

AI enhances retail CX through personalization, using analytics to recommend products based on behavior, preferences, and history, creating tailored experiences that boost satisfaction and loyalty. Tools like chatbots and predictive models enable real-time interactions, while security posture improves via fraud detection integrated into these systems. This data-driven approach ensures relevance, differentiating from generic methods. Automation supports but personalization drives engagement. Exact extract: "AI integrates personalized interactions with driven analytics to customize shopping experiences, thereby enhancing customer satisfaction in retail." (Reference: Cyber Security for AI by SISA Study Guide, Section on GenAI in Security and Customer Enhancement, Page 70-73).

NEW QUESTION # 51

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

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

Answer: D

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 # 52

In the context of LLM plugin compromise, as demonstrated by the ChatGPT Plugin Privacy Leak case study, what is a key practice

to secure API access and prevent unauthorized information leaks?

- A. Restricting API access to a predefined list of IP addresses
- **B. Implementing stringent authentication and authorization mechanisms, along with regular security audits**
- C. Allowing open API access to facilitate ease of integration
- D. Increasing the frequency of API endpoint updates.

Answer: B

Explanation:

The ChatGPT Plugin Privacy Leak highlighted vulnerabilities in plugin ecosystems, where weak API security led to data exposure. Implementing robust authentication (e.g., OAuth) and authorization (e.g., RBAC), coupled with regular audits, ensures only verified entities access APIs, preventing leaks. IP whitelisting is less comprehensive, and open access heightens risks. Audits detect misconfigurations, aligning with secure AI practices. Exact extract: "Stringent authentication, authorization, and regular audits are key to securing API access and preventing leaks in LLM plugins." (Reference: Cyber Security for AI by SISA Study Guide, Section on Plugin Security Case Studies, Page 170-173).

NEW QUESTION # 53

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

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

Answer: A

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 # 54

Which of the following is a method in which simulation of various attack scenarios are applied to analyze the model's behavior under those conditions.

- **A. Adversarial testing involves systematically simulating attack vectors, such as input perturbations or evasion techniques, to evaluate an AI model's robustness and identify vulnerabilities before deployment. This proactive method replicates real-world threats, like adversarial examples that fool classifiers or prompt manipulations in LLMs, allowing developers to observe behavioral anomalies, measure resilience, and implement defenses like adversarial training or input validation. Unlike passive methods like input sanitation, which cleans data reactively, adversarial testing is dynamic and comprehensive, covering scenarios from data poisoning to model inversion. In practice, tools like CleverHans or ART libraries facilitate these simulations, providing metrics on attack success rates and model degradation. This is crucial for securing AI models, as it uncovers hidden weaknesses that could lead to exploits, ensuring compliance with security standards. By iterating through attack-defense cycles, it enhances overall data and model integrity, reducing risks in high-stakes environments like autonomous systems or financial AI. Exact extract: "Adversarial testing is a method where simulation of various attack scenarios is applied to analyze the model's behavior, helping to fortify AI against potential threats." (Reference: Cyber Security for AI by SISA Study Guide, Section on AI Model Security Testing, Page 140-143).**
- B. Prompt injections
- C. Model firewall
- D. input sanitation
- E. Adversarial testing

Answer: A

NEW QUESTION # 55

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