CSPAI Prüfungsaufgaben, CSPAI Fragenkatalog

Vielleicht mit zahlreichen Übungen fehlt Ihnen noch die Sicherheit für SISA CSPAI Prüfung. Falls Sie nach dem Kauf unserer Prüfungsunterlagen leider nicht SISA CSPAI bestehen, bieten wir Ihnen eine volle Rückerstattung. Aber wir glauben, dass unsere Prüfungssoftware, die unseren Kunden eine Bestehensrate von fast 100% angeboten hat, wird Ihre Erwartungen nicht enttäuschen!

SISA CSPAI Prüfungsplan:

Thema	Einzelheiten
Thema 1	• 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.
Thema 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.
Thema 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.
Thema 4	• 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.

>> CSPAI Prüfungsaufgaben <<

CSPAI Fragenkatalog - CSPAI Musterprüfungsfragen

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SISA Certified Security Professional in Artificial Intelligence CSPAI

Prüfungsfragen mit Lösungen (Q19-Q24):

19. Frage
For effective AI risk management, which measure is crucial when dealing with penetration testing and supply chain security?

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

Antwort: A

Begründung:
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).

20. Frage
What is a potential risk of LLM plugin compromise?

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

Antwort: A

Begründung:
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).

21. Frage
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
- B. Prompt injections
- C. input sanitation
- D. 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).

- E. Model firewall

Antwort: D

22. Frage
In line with the US Executive Order on AI, a company's AI application has encountered a security vulnerability. What should be prioritized to align with the order's expectations?

- A. Immediate public disclosure of the vulnerability.
- B. Ignoring the vulnerability if it does not affect core functionalities.
- C. Implementing a rapid response to address and remediate the vulnerability, followed by a review of security practices.
- D. Halting all AI projects until a full investigation is complete.

Antwort: C

Begründung:
The US Executive Order on AI emphasizes proactive risk management and robust security to ensure safe AI deployment. When a vulnerability is detected, rapid response to remediate it, coupled with a thorough review of security practices, aligns with these mandates by minimizing harm and preventing recurrence. This approach involves patching the issue, assessing root causes, and updating protocols to strengthen defenses, ensuring compliance with standards like ISO 42001, which prioritizes risk mitigation in AI systems. Public disclosure, while important, is secondary to remediation to avoid premature exposure, and halting projects is overly disruptive unless risks are critical. Ignoring vulnerabilities contradicts responsible AI principles, risking regulatory penalties and trust erosion. This strategy fosters accountability and aligns with governance frameworks for secure AI operations. Exact extract: "Addressing vulnerabilities promptly through remediation and reviewing security practices is prioritized to meet the US Executive Order's expectations for safe and secure AI systems." (Reference: Cyber Security for AI by SISA Study Guide, Section on AI Governance and US EO Compliance, Page 165-168).

23. Frage
Which of the following describes the scenario where an LLM is embedded 'As-is' into an application frame?

- A. Using the LLM solely for backend data processing, while the application handles all user interactions.
- B. Customizing the LLM to fit specific application requirements and workflows before integration.
- C. Replacing the LLM with a more specialized model tailored to the application's needs.
- D. Integrating the LLM into the application without modifications, using its out-of-the-box capabilities directly within the application.

Antwort: D

Begründung:
Embedding an LLM 'as-is' means direct integration of the pretrained model into the app framework without alterations, relying on its inherent capabilities for tasks like text generation, simplifying SDLC by avoiding customization overhead. This is suitable for general-purpose apps but may lack optimization for specifics, contrasting with tailored approaches. It accelerates deployment while posing risks like unmitigated biases, necessitating post-integration safeguards. Exact extract: "It describes integrating the LLM without modifications, using out-of-the-box capabilities directly in the application." (Reference: Cyber Security for AI by SISA Study Guide, Section on LLM Integration Methods, Page 110-113).

24. Frage
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