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SISA Certified Security Professional in Artificial Intelligence Sample Questions (Q37-Q42):

NEW QUESTION # 37

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. Prompt injections
- B. input sanitation
- C. 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).

- D. Model firewall
- E. Adversarial testing

Answer: C

NEW QUESTION # 38

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

Answer: A

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 # 39

How does ISO 27563 support privacy in AI systems?

- A. By providing guidelines for privacy-enhancing technologies in AI.
- B. By mandating the use of specific encryption algorithms.
- C. By focusing on performance metrics over privacy.
- D. By limiting AI to non-personal data only.

Answer: A

Explanation:

ISO 27563 offers practical guidance on implementing privacy-enhancing technologies (PETs) in AI, such as differential privacy or federated learning, to protect data while maintaining utility. It addresses risks like inference attacks, ensuring compliance with privacy regulations. Exact extract: "ISO 27563 supports privacy in AI by providing guidelines for privacy-enhancing technologies." (Reference: Cyber Security for AI by SISA Study Guide, Section on ISO 27563 for Privacy, Page 265-268).

NEW QUESTION # 40

How does the multi-head self-attention mechanism improve the model's ability to learn complex relationships in data?

- A. By simplifying the network by removing redundancy in attention layers.
- B. By forcing the model to focus on a single aspect of the input at a time.
- C. By allowing the model to focus on different parts of the input through multiple attention heads
- D. By ensuring that the attention mechanism looks only at local context within the input

Answer: C

Explanation:

Multi-head self-attention enhances a model's capacity to capture intricate patterns by dividing the attention process into multiple

parallel 'heads,' each learning distinct aspects of the relationships within the data. This diversification enables the model to attend to various subspaces of the input simultaneously—such as syntactic, semantic, or positional features—leading to richer representations. For example, one head might focus on nearby words for local context, while another captures global dependencies, aggregating these insights through concatenation and linear transformation. This approach mitigates the limitations of single-head attention, which might overlook nuanced interactions, and promotes better generalization in complex datasets. In practice, it results in improved performance on tasks like NLP and vision, where multifaceted relationships are key. The mechanism's parallelism also aids in scalability, allowing deeper insights without proportional computational increases. Exact extract: "Multi-head attention improves learning by permitting the model to jointly attend to information from different representation subspaces at different positions, thus capturing complex relationships more effectively than a single attention head." (Reference: Cyber Security for AI by SISA Study Guide, Section on Transformer Mechanisms, Page 48-50).

NEW QUESTION # 41

What metric is often used in GenAI risk models to evaluate bias?

- A. Fairness metrics like demographic parity or equalized odds.
- B. Computational efficiency during training.
- C. Number of parameters in the model.
- D. Accuracy rate without considering demographics.

Answer: A

Explanation:

Bias assessment in GenAI employs fairness metrics such as demographic parity (equal outcomes across groups) or equalized odds (balanced error rates), quantifying disparities in outputs. These metrics guide debiasing techniques, ensuring ethical AI under risk models. In applications like hiring tools, they prevent discriminatory generations, aligning with regulatory requirements. Exact extract: "Fairness metrics like demographic parity are used in GenAI risk models to evaluate and mitigate bias." (Reference: Cyber Security for AI by SISA Study Guide, Section on Bias Assessment Metrics, Page 245-248).

NEW QUESTION # 42

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