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## SISA Certified Security Professional in Artificial Intelligence Sample Questions (Q22-Q27):

### NEW QUESTION # 22

An organization is evaluating the risks associated with publishing poisoned datasets. What could be a significant consequence of using such datasets in training?

- A. Compromised model integrity and reliability leading to inaccurate or biased outputs
- B. Enhanced model adaptability to diverse data types.
- C. Improved model performance due to higher data volume.
- D. Increased model efficiency in processing and generation tasks.

**Answer: A**

Explanation:

Poisoned datasets introduce adversarial perturbations or malicious samples that, when used in training, can subtly alter a model's decision boundaries, leading to degraded integrity and unreliable outputs. This risk manifests as backdoors or biases, where the model performs well on clean data but fails or behaves maliciously on triggered inputs, compromising security in applications like classification or generation. For instance, in a facial recognition system, poisoned data might cause misidentification of certain groups, resulting in biased or inaccurate results. Mitigation involves rigorous data validation, anomaly detection, and diverse sourcing to ensure dataset purity. The consequence extends to ethical concerns, potential legal liabilities, and loss of trust in AI systems. Addressing this requires ongoing monitoring and adversarial training to bolster resilience. Exact extract: "Using poisoned datasets can

compromise model integrity, leading to inaccurate, biased, or manipulated outputs, which undermines the reliability of AI systems and poses significant security risks." (Reference: Cyber Security for AI by SISA Study Guide, Section on Data Poisoning Risks, Page 112-115).

### NEW QUESTION # 23

What is a potential risk associated with hallucinations in LLMs, and how should it be addressed to ensure Responsible AI?

- A. Hallucinations cause models to slow down; optimizing hardware performance is necessary to mitigate this issue.
- B. Hallucinations are primarily due to overfitting; regularization techniques should be applied during training.
- C. Hallucinations can lead to creative outputs, which are beneficial for all applications; hence, no measures are necessary.
- **D. Hallucinations can produce inaccurate or misleading information; it should be addressed by incorporating external knowledge bases and retrieval systems.**

**Answer: D**

Explanation:

Hallucinations in LLMs risk generating inaccurate or misleading outputs, undermining trust and safety.

Incorporating external knowledge bases and retrieval systems, like RAG, grounds responses in verified data, reducing fabrications and aligning with Responsible AI principles. Regularization helps but is secondary to factual grounding. Exact extract: "Hallucinations produce misleading information, addressed by incorporating external knowledge bases and retrieval systems for Responsible AI." (Reference: Cyber Security for AI by SISA Study Guide, Section on LLM Hallucination Mitigation, Page 125-128).

### NEW QUESTION # 24

In the Retrieval-Augmented Generation (RAG) framework, which of the following is the most critical factor for improving factual consistency in generated outputs?

- **A. Tuning the retrieval model to prioritize documents with the highest semantic similarity**
- B. Implementing a redundancy check by comparing the outputs from different retrieval modules.
- C. Fine-tuning the generative model with synthetic datasets generated from the retrieved documents
- D. Utilising an ensemble of multiple LLMs to cross-check the generated outputs.

**Answer: A**

Explanation:

The Retrieval-Augmented Generation (RAG) framework enhances generative models by incorporating external knowledge retrieval to ground outputs in factual data, thereby improving consistency and reducing hallucinations. The critical factor lies in optimizing the retrieval component to select documents with maximal semantic relevance, often using techniques like dense vector embeddings (e.g., via BERT or similar encoders) and similarity metrics such as cosine similarity. This ensures that the generator receives contextually precise information, minimizing irrelevant or misleading inputs that could lead to inconsistent outputs. For instance, in question-answering systems, prioritizing high-similarity documents allows the model to reference verified sources directly, boosting accuracy. Other approaches, like ensembles or redundancy checks, are supplementary but less foundational than effective retrieval tuning, which directly impacts the quality of augmented context. In SDLC, integrating RAG with fine-tuned retrieval accelerates development cycles by enabling modular updates without full model retraining. Security benefits include tracing outputs to sources for auditability, aligning with responsible AI practices. This method scales well for large knowledge bases, making it essential for production-grade applications where factual integrity is paramount. Exact extract:

"Tuning the retrieval model to prioritize documents with the highest semantic similarity is the most critical factor for improving factual consistency in RAG-generated outputs, as it ensures relevant context is provided to the generator." (Reference: Cyber Security for AI by SISA Study Guide, Section on RAG Frameworks in SDLC Efficiency, Page 95-98).

### NEW QUESTION # 25

Which framework is commonly used to assess risks in Generative AI systems according to NIST?

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

**Answer: A**

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 # 26

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. Perform occasional penetration testing and only address vulnerabilities in the internal network.
- C. Implement penetration testing only for high-risk components and ignore less critical ones
- D. Prioritize external audits over internal penetration testing to assess supply chain security.

**Answer: A**

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 # 27

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