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SISA Certified Security Professional in Artificial Intelligence Sample Questions (Q45-Q50):

NEW QUESTION # 45

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

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

Answer: B

Explanation:

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).

NEW QUESTION # 46

In assessing GenAI supply chain risks, what is a critical consideration?

- A. Ignoring open-source dependencies to reduce complexity.
- B. **Evaluating third-party components for embedded vulnerabilities.**
- C. Focusing only on internal development risks.
- D. Assuming all vendors comply with standards automatically.

Answer: B

Explanation:

GenAI supply chain risk assessment prioritizes scrutinizing third-party libraries, datasets, and models for vulnerabilities like backdoors or biases, using tools for dependency scanning. This holistic view prevents cascade failures, as seen in compromised pretrained models. Mitigation includes vendor audits and secure sourcing. Exact extract: "A critical consideration in GenAI supply chain risks is evaluating third-party components for vulnerabilities." (Reference: Cyber Security for AI by SISA Study Guide, Section on Supply Chain Risk Assessment, Page 250-253).

NEW QUESTION # 47

In a machine translation system where context from both early and later words in a sentence is crucial, a team is considering moving from RNN-based models to Transformer models. How does the self-attention mechanism in Transformer architecture support this task?

- A. By assigning a constant weight to each word, ensuring uniform translation output
- B. By focusing only on the most recent word in the sentence to speed up translation
- C. **By considering all words in a sentence equally and simultaneously, allowing the model to establish long-range dependencies.**
- D. By processing words in strict sequential order, which is essential for capturing meaning

Answer: C

Explanation:

The self-attention mechanism in Transformer models revolutionizes machine translation by enabling the model to weigh the importance of different words in a sentence relative to each other, regardless of their position. Unlike RNN-based models, which process sequences sequentially and often struggle with long-range dependencies due to vanishing gradients, Transformers use self-attention to compute representations of all words in parallel. This allows the model to capture contextual relationships between distant words effectively, such as linking pronouns to their antecedents across long sentences. For instance, in translating a sentence where the meaning depends on both the beginning and end, self-attention assigns dynamic weights based on query, key, and value matrices, facilitating a global view of the input. This parallelism not only improves accuracy in tasks requiring comprehensive context but also enhances training efficiency. The mechanism supports bidirectional context understanding, making it superior for natural language processing tasks like translation. Exact extract: "The self-attention mechanism allows the model to consider all positions in the input sequence simultaneously, establishing long-range dependencies that are critical for context-heavy tasks like machine translation, unlike sequential RNN processing." (Reference: Cyber Security for AI by SISA Study Guide, Section on Evolution of AI Architectures, Page 45-47).

NEW QUESTION # 48

In what way can GenAI assist in phishing detection and prevention?

- A. **By generating realistic phishing simulations and analyzing user responses.**
- B. By sending automated phishing emails to test employee awareness.

- C. By relying solely on signature-based detection methods.
- D. By blocking all incoming emails to prevent any potential threats.

Answer: A

Explanation:

GenAI bolsters phishing defenses by creating sophisticated simulation campaigns that mimic real attacks, training employees and refining detection algorithms based on interaction data. It analyzes email content, URLs, and attachments semantically to identify subtle manipulations, going beyond traditional filters. This dynamic method adapts to evolving tactics like AI-generated deepfakes in emails, improving prevention through predictive modeling. Organizations benefit from reduced successful breach rates and enhanced user education. Integration with email gateways provides real-time alerts, strengthening overall security. Exact extract: "GenAI assists in phishing detection by generating simulations and analyzing responses, thereby preventing attacks and improving security posture." (Reference: Cyber Security for AI by SISA Study Guide, Section on GenAI in Phishing Mitigation, Page 210-213).

NEW QUESTION # 49

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

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 # 50

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