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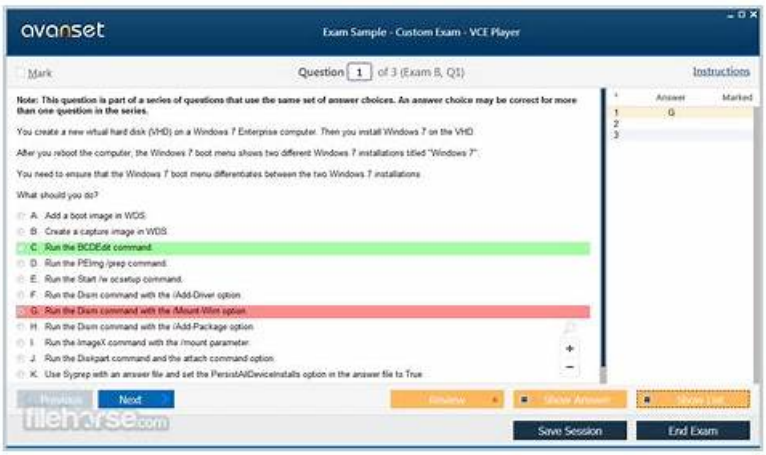


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## SISA CSPAI Exam Syllabus Topics:

| Topic | Details |
|---|---|
| Topic 1 | • 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 | • Using Gen AI for Improving the Security Posture: This section of the exam measures skills of the Cybersecurity Risk Manager and focuses on how Gen AI tools can strengthen an organization's overall security posture. It includes insights on how automation, predictive analysis, and intelligent threat detection can be used to enhance cyber resilience and operational defense. |
| Topic 3 | • 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. |

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## SISA Certified Security Professional in Artificial Intelligence Sample Questions (Q41-Q46):

**NEW QUESTION # 41**
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 processing words in strict sequential order, which is essential for capturing meaning
- B. By assigning a constant weight to each word, ensuring uniform translation output
- C. By focusing only on the most recent word in the sentence to speed up translation
- D. By considering all words in a sentence equally and simultaneously, allowing the model to establish long-range dependencies.

**Answer: D**

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-heavytasks 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 # 42**
Which of the following is a primary goal of enforcing Responsible AI standards and regulations in the development and deployment of LLMs?

- A. Maximizing model performance while minimizing computational costs.
- B. Focusing solely on improving the speed and scalability of AI systems
- C. Developing AI systems with the highest accuracy regardless of data privacy concerns
- D. Ensuring that AI systems operate safely, ethically, and without causing harm.

**Answer: D**

Explanation:
Responsible AI standards, including ISO 42001 for AI management systems, aim to promote ethical development, ensuring safety, fairness, and harm prevention in LLM deployments. This encompasses bias mitigation, transparency, and accountability, aligning with societal values. Regulations like the EU AI Act reinforce this by categorizing risks and mandating safeguards. The goal transcends performance to foster trust and sustainability, addressing issues like discrimination or misuse. Exact extract: "The primary goal is to ensure AI systems operate safely, ethically, and without causing harm, as outlined in standards like ISO 42001." (Reference: Cyber Security for AI by SISA Study Guide, Section on Responsible AI and ISO Standards, Page 150-153).

**NEW QUESTION # 43**
In transformer models, how does the attention mechanism improve model performance compared to RNNs?

- A. By dynamically assigning importance to every word in the sequence, enabling the model to focus on relevant parts of the input.
- B. By enabling the model to attend to both nearby and distant words simultaneously, improving its understanding of long-term dependencies
- C. By processing each input independently, ensuring the model captures all aspects of the sequence equally.
- D. By enhancing the model's ability to process data in parallel, ensuring faster training without compromising context.

**Answer: B**

Explanation:
Transformer models leverage self-attention to process entire sequences concurrently, unlike RNNs, which handle inputs sequentially and struggle with long-range dependencies due to vanishing gradients. By computing attention scores across all words, Transformers

capture both local and global contexts, enabling better modeling of relationships in tasks like translation or summarization. For example, in a long sentence, attention links distant pronouns to their subjects, improving coherence. This contrasts with RNNs' sequential limitations, which hinder capturing far-apart dependencies. While parallelism (option C) aids efficiency, the core improvement lies in dependency modeling, not just speed. Exact extract: "The attention mechanism enables Transformers to attend to nearby and distant words simultaneously, significantly improving long-term dependency understanding over RNNs." (Reference: Cyber Security for AI by SISA Study Guide, Section on Transformer vs. RNN Architectures, Page 50-53).

**NEW QUESTION # 44**
How does ISO 27563 support privacy in AI systems?

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

**Answer: B**

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 # 45**
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. Implementing a rapid response to address and remediate the vulnerability, followed by a review of security practices.
- B. Ignoring the vulnerability if it does not affect core functionalities.
- C. Halting all AI projects until a full investigation is complete.
- D. Immediate public disclosure of the vulnerability.

**Answer: A**

Explanation:
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).

**NEW QUESTION # 46**
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