CSPAI日本語練習問題、CSPAI模試エンジン

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>> CSPAI日本語練習問題 <<

公認されたCSPAI日本語練習問題 & 資格試験のリーダー & 効果的なSISA Certified Security Professional in Artificial Intelligence

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SISA CSPAI 認定試験の出題範囲：

トピック	出題範囲
トピック 1	• 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.

トピック 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.
トピック 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.
トピック 4	• 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.

SISA Certified Security Professional in Artificial Intelligence 認定 CSPAI 試験問題 (Q28-Q33):

質問 # 28
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 considering all words in a sentence equally and simultaneously, allowing the model to establish long-range dependencies.
- B. By processing words in strict sequential order, which is essential for capturing meaning
- C. By focusing only on the most recent word in the sentence to speed up translation
- D. By assigning a constant weight to each word, ensuring uniform translation output

正解：A

解説：
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).

質問 # 29
What is a key benefit of using GenAI for security analytics?

- A. Limiting analysis to historical data only.
- B. Increasing data silos to protect information.
- C. Reducing the use of analytics tools to save costs.
- D. Predicting future threats through pattern recognition in large datasets.

正解：D

解説：
GenAI revolutionizes security analytics by mining massive datasets for patterns, predicting emerging threats like zero-day attacks through generative modeling. It synthesizes insights from disparate sources, enabling proactive defenses and anomaly detection with

high precision. This foresight allows organizations to allocate resources effectively, preventing breaches before they occur. In practice, it integrates with SIEM systems for enhanced threat hunting. The benefit lies in transforming reactive security into predictive, bolstering posture against sophisticated adversaries. Exact extract: "A key benefit of GenAI in security analytics is predicting future threats via pattern recognition, improving proactive security measures." (Reference: Cyber Security for AI by SISA Study Guide, Section on Predictive Analytics with GenAI, Page 220-223).

質問 # 30
In a scenario where Open-Source LLMs are being used to create a virtual assistant, what would be the most effective way to ensure the assistant is continuously improving its interactions without constant retraining?

- A. Reducing the amount of feedback integrated to speed up deployment.
- B. Shifting the assistant to a completely rule-based system to avoid reliance on user feedback.
- C. Training a larger proprietary model to replace the open-source LLM
- D. Implementing reinforcement learning from human feedback (RLHF) to refine responses based on user input.

正解：D

解説：
For continuous improvement in open-source LLM-based virtual assistants, RLHF integrates human evaluations to align model outputs with preferences, iteratively refining behavior without full retraining. This method uses reward models trained on feedback to guide policy optimization, enhancing interaction quality over time. It addresses limitations like initial biases or suboptimal responses by leveraging real-world user inputs, making the system adaptive and efficient. Unlike full retraining, RLHF is parameter-efficient and scalable, ideal for production environments. Security benefits include monitoring feedback for adversarial attempts. Exact extract: "Implementing RLHF allows continuous refinement of the assistant's interactions based on user feedback, avoiding the need for constant full retraining while improving performance." (Reference: Cyber Security for AI by SISA Study Guide, Section on AI Improvement Techniques in SDLC, Page 85-88).

質問 # 31
How can Generative AI be utilized to enhance threat detection in cybersecurity operations?

- A. By automating the deletion of security logs to reduce storage costs.
- B. By creating synthetic attack scenarios for training detection models.
- C. By generating random data to overload security systems.
- D. By replacing all human analysts with AI-generated reports.

正解：B

解説：
Generative AI improves security posture by synthesizing realistic cyber threat scenarios, which can be used to train and test detection systems without exposing real networks to risks. This approach allows for the creation of diverse, evolving attack patterns that mimic advanced persistent threats, enabling machine learning models to learn from simulated data and improve accuracy in identifying anomalies. For example, GenAI can generate phishing emails or malware variants, helping in proactive defense tuning. This not only enhances detection rates but also reduces false positives through better model robustness. Integration into security operations centers (SOCs) facilitates continuous improvement, aligning with zero-trust architectures. Security benefits include cost-effective training and faster response to emerging threats. Exact extract: "Generative AI enhances threat detection by creating synthetic attack scenarios for training models, thereby improving the overall security posture without real-world risks." (Reference: Cyber Security for AI by SISA Study Guide, Section on GenAI Applications in Threat Detection, Page 200-203).

質問 # 32
Which of the following is a primary goal of enforcing Responsible AI standards and regulations in the development and deployment of LLMs?

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

正解：D

解説：
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).

質問 # 33

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