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SISA CSPAI 考試大綱：

主題	簡介
主題 1	Models for Assessing Gen AI Risk: This section of the exam measures skills of the Cybersecurity Risk Manager and deals with frameworks and models used to evaluate risks associated with deploying generative AI. It includes methods for identifying, quantifying, and mitigating risks from both technical and governance perspectives.
主題 2	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.

主題 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.
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最新的 Cyber Security for AI CSPAI 免費考試真題 (Q33-Q38):

問題 #33

In a Transformer model processing a sequence of text for a translation task, how does incorporating positional encoding impact the model's ability to generate accurate translations?

- A. It ensures that the model treats all words as equally important, regardless of their position in the sequence.
- B. It helps the model distinguish the order of words in the sentence, leading to more accurate translation by maintaining the context of each word's position.
- C. It speeds up processing by reducing the number of tokens the model needs to handle.
- D. It simplifies the model's computations by merging all words into a single representation, regardless of their order.

答案: B

解題說明:

Positional encoding in Transformers addresses the lack of inherent sequential information in self-attention by embedding word order into token representations, using functions like sine and cosine to assign unique positional vectors. This enables the model to differentiate word positions, crucial for translation where syntax and context depend on sequence (e.g., subject-verb-object order). Without it, Transformers treat inputs as bags of words, losing syntactic accuracy. Positional encoding ensures precise contextual understanding, unlike options that misrepresent its role. Exact extract: "Positional encoding helps Transformers distinguish word order, leading to more accurate translations by maintaining positional context." (Reference: Cyber Security for AI by SISA Study Guide, Section on Transformer Components, Page 55-57).

問題 #34

What role does GenAI play in automating vulnerability scanning and remediation processes?

- A. By increasing the frequency of manual scans to ensure thoroughness.
- B. By compiling lists of vulnerabilities without any analysis.
- C. By generating code patches and suggesting fixes based on vulnerability descriptions.
- D. By ignoring low-priority vulnerabilities to focus on high-impact ones.

答案: C

解題說明:

GenAI automates vulnerability management by analyzing scan results and generating tailored code patches or remediation strategies, accelerating the fix process and reducing human error. Using natural language processing, it interprets vulnerability reports, cross-references with known exploits, and proposes secure code alternatives, integrating seamlessly into DevSecOps pipelines. This proactive approach minimizes exposure windows and enhances system resilience against exploits. For instance, in cloud environments, GenAI can simulate patch impacts before application. This contributes to a stronger security posture by enabling rapid, accurate responses to threats. Exact extract: "GenAI automates vulnerability scanning and remediation by generating code patches and fixes, improving efficiency and security posture." (Reference: Cyber Security for AI by SISA Study Guide, Section on Automation in Vulnerability Management, Page 205-208).

問題 #35

How does machine learning improve the accuracy of predictive models in finance?

- A. By avoiding any use of past data and focusing solely on current trends
- B. By relying exclusively on manual adjustments and human input for predictions.
- C. By using historical data patterns to make predictions without updates
- D. By continuously learning from new data patterns to refine predictions

答案: D

解題說明：

Machine learning enhances financial predictive models by continuously learning from new data, refining predictions for tasks like fraud detection or market forecasting. This adaptability leverages evolving patterns, unlike static historical or manual methods, and improves security posture through real-time anomaly detection. Exact extract: "ML improves financial predictive accuracy by continuously learning from new data patterns to refine predictions." (Reference: Cyber Security for AI by SISA Study Guide, Section on ML in Financial Security, Page 85-88).

問題 #36

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.

答案： D

解題說明：

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).

問題 #37

A company's chatbot, Tay, was poisoned by malicious interactions. What is the primary lesson learned from this case study?

- A. Open interaction with users without safeguards can lead to model poisoning and generation of inappropriate content.
- B. Chatbots should have limited conversational abilities to prevent poisoning.
- C. Continuous live training is essential for enhancing chatbot performance.
- D. Encrypting user data can prevent such attacks

答案： A

解題說明：

The Tay incident, where Microsoft's chatbot was manipulated via toxic inputs to produce offensive content, underscores the dangers of unfiltered live learning, leading to rapid poisoning. Key lesson: Implement safeguards like content filters, rate limits, and moderated feedback loops to prevent adversarial exploitation.

This informs AI security by emphasizing input validation and ethical alignment in interactive systems. Exact extract: "Open interactions without safeguards can lead to model poisoning and inappropriate content, as seen in the Tay case." (Reference: Cyber Security for AI by SISA Study Guide, Section on Case Studies in AI Poisoning, Page 160-163).

問題 #38

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