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Another version of Certified Security Professional in Artificial Intelligence (CSPAI) practice exams is also available at ExamcollectionPass and that is web-based. It has all specifications we have discussed above in the section of the SISA CSPAI desktop practice test software. But the only difference is that this web-based CSPAI practice exam software works online and needs no software installation. Furthermore, this CSPAI Practice Exam is supported by both Windows and iOS, Android, Mac, and Linux. Since it is the web-based CSPAI practice exam, you can take it from Opera, Chrome, Safari, Firefox, or any other popular browser.

SISA CSPAI Exam Syllabus Topics:

Topic	Details
Topic 1	• 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.
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 (Q36-Q41):

NEW QUESTION # 36
An AI system is generating confident but incorrect outputs, commonly known as hallucinations. Which strategy would most likely reduce the occurrence of such hallucinations and improve the trustworthiness of the system?

- A. Retraining the model with more comprehensive and accurate datasets.
- B. Encouraging randomness in responses to explore more diverse outputs.
- C. Increasing the model's output length to enhance response complexity.
- D. Reducing the number of attention layers to speed up generation

Answer: A

Explanation:
Hallucinations in AI, particularly LLMs, arise from gaps in training data, overfitting, or inadequate generalization, leading to plausible but false outputs. The most effective mitigation is retraining with expansive, high-quality datasets that cover diverse scenarios, ensuring factual grounding and reducing fabrication risks. This involves curating verified sources, incorporating fact-checking mechanisms, and using techniques like data augmentation to fill knowledge voids. Complementary strategies include prompt engineering and external verification, but foundational retraining addresses root causes, enhancing overall trustworthiness. In security contexts, this prevents misinformation propagation, critical for applications in decision-making or content generation. Exact extract: "To reduce hallucinations and improve trustworthiness, retrain the model with more comprehensive and accurate datasets, ensuring better factual alignment and reduced erroneous confidence in outputs." (Reference: Cyber Security for AI by SISA Study Guide, Section on LLM Risks and Mitigations, Page 120-123).

NEW QUESTION # 37
In a Retrieval-Augmented Generation (RAG) system, which key step is crucial for ensuring that the generated response is contextually accurate and relevant to the user's question?

- A. Retrieving relevant information from the vector database before generating a response
- B. Utilizing feedback mechanisms to continuously improve the relevance of responses based on user interactions.
- C. Leveraging a diverse set of data sources to enrich the response with varied perspectives
- D. Integrating advanced search algorithms to ensure the retrieval of highly relevant documents for context.

Answer: A

Explanation:
In RAG systems, retrieving relevant information from a vector database before generation is pivotal, as it grounds responses in verified, contextually aligned data. Using embeddings and similarity metrics, the system fetches documents matching the query's intent, ensuring accuracy and relevance. While diverse sources or feedback aid long-term improvement, the retrieval step directly drives contextual fidelity, streamlining SDLC by modularizing data access. Exact extract: "Retrieving relevant information from the vector database is crucial for ensuring contextually accurate responses in RAG systems." (Reference: Cyber Security for AI by SISA Study Guide, Section on RAG Optimization, Page 120-123).

NEW QUESTION # 38
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 # 39
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 enhancing the model's ability to process data in parallel, ensuring faster training without compromising context.
- D. By processing each input independently, ensuring the model captures all aspects of the sequence equally.

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 # 40
When dealing with the risk of data leakage in LLMs, which of the following actions is most effective in mitigating this issue?

- A. Using larger datasets to overshadow sensitive information.
- B. Relying solely on model obfuscation techniques
- C. Applying rigorous access controls and anonymization techniques to training data.
- D. Allowing unrestricted access to training data.

Answer: C

Explanation:
Data leakage in LLMs occurs when sensitive information from training data is inadvertently revealed in outputs, posing privacy risks. Effective mitigation involves strict access controls, such as role-based permissions, and anonymization methods like differential privacy or tokenization to obscure personal data.
These measures prevent extraction attacks while maintaining model utility. Regular audits and data minimization further strengthen defenses. Unlike obfuscation alone, which may not fully protect, combined controls ensure compliance with regulations like GDPR. Exact extract: "Applying rigorous access controls and anonymization techniques to training data is most effective in mitigating data leakage risks in LLMs." (Reference: Cyber Security for AI by SISA Study Guide, Section on Data Security in AI Models, Page 130-
133).

NEW QUESTION # 41
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