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SISA CSPAI Exam Syllabus Topics:

Topic	Details
Topic 1	- 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 2	- 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.
Topic 3	- 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.

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SISA Certified Security Professional in Artificial Intelligence Sample Questions (Q13-Q18):

NEW QUESTION # 13
Fine-tuning an LLM on a single task involves adjusting model parameters to specialize in a particular domain.

What is the primary challenge associated with fine tuning for a single task compared to multi task fine tuning?

- A. Single-task fine-tuning introduces more complexity in managing different versions of the model compared to multi-task fine-tuning.
- B. Single-task fine-tuning tends to degrade the model's performance on the original tasks it was trained on.
- C. Single-task fine-tuning is less effective in generalizing to new, unseen tasks compared to multi-task fine- tuning.
- D. Single-task fine-tuning requires significantly more data to achieve comparable performance to multi- task fine tuning.

Answer: C

Explanation:
Single-task fine-tuning specializes the LLM but risks overfitting, limiting generalization to novel tasks unlike multi-task approaches that promote transfer learning across domains. This challenge requires careful regularization in SDLC to balance specificity and versatility, often needing more resources for version management. Exact extract: "Single-task fine-tuning is less effective in generalizing to new tasks compared to multi-task fine-tuning." (Reference: Cyber Security for AI by SISA Study Guide, Section on Fine-Tuning Challenges, Page 115-118).

NEW QUESTION # 14
How does the STRIDE model adapt to assessing threats in GenAI?

- A. By using it unchanged from traditional software.
- B. By excluding AI-specific threats like model inversion.
- C. By applying Spoofing, Tampering, Repudiation, Information Disclosure, Denial of Service, and Elevation of Privilege to AI components.
- D. By focusing only on hardware threats in AI systems.

Answer: C

Explanation:
The STRIDE model adapts to GenAI by evaluating threats across its categories: Spoofing (e.g., fake inputs), Tampering (e.g., data poisoning), Repudiation (e.g., untraceable generations), Information Disclosure (e.g., leakage from prompts), Denial of Service (e.g., resource exhaustion), and Elevation of Privilege (e.g., jailbreaking). This systematic threat modeling helps in designing resilient GenAI systems, incorporating AI- unique aspects like adversarial inputs. Exact extract: "STRIDE adapts to GenAI by applying its threat categories to AI components, assessing specific risks like tampering or disclosure." (Reference: Cyber Security for AI by SISA Study Guide, Section on Threat Modeling for GenAI, Page 240-243).

NEW QUESTION # 15
An organization is evaluating the risks associated with publishing poisoned datasets. What could be a significant consequence of using such datasets in training?

- A. Increased model efficiency in processing and generation tasks.
- B. Improved model performance due to higher data volume.
- C. Enhanced model adaptability to diverse data types.
- D. Compromised model integrity and reliability leading to inaccurate or biased outputs

Answer: D

Explanation:
Poisoned datasets introduce adversarial perturbations or malicious samples that, when used in training, can subtly alter a model's decision boundaries, leading to degraded integrity and unreliable outputs. This risk manifests as backdoors or biases, where the model performs well on clean data but fails or behaves maliciously on triggered inputs, compromising security in applications like classification or generation. For instance, in a facial recognition system, poisoned data might cause misidentification of certain groups, resulting in biased or inaccurate results. Mitigation involves rigorous data validation, anomaly detection, and diverse sourcing to ensure dataset purity. The consequence extends to ethical concerns, potential legal liabilities, and loss of trust in AI systems. Addressing this requires ongoing monitoring and adversarial training to bolster resilience. Exact extract: "Using poisoned datasets can compromise model integrity, leading to inaccurate, biased, or manipulated outputs, which undermines the reliability of AI systems and poses significant security risks." (Reference: Cyber Security for AI by SISA Study Guide, Section on Data Poisoning Risks, Page 112-115).

NEW QUESTION # 16

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 speeds up processing by reducing the number of tokens the model needs to handle.
- B. It simplifies the model's computations by merging all words into a single representation, regardless of their order
- C. 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.
- D. It ensures that the model treats all words as equally important, regardless of their position in the sequence.

Answer: C

Explanation:

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).

NEW QUESTION # 17

How do ISO 42001 and ISO 27563 integrate for comprehensive AI governance?

- A. By combining AI management with privacy standards to address both operational and data protection needs.
- B. By applying only to public sector AI systems.
- C. By focusing ISO 42001 on privacy and ISO 27563 on management.
- D. By replacing each other in different organizational contexts.

Answer: A

Explanation:

The integration of ISO 42001 and ISO 27563 provides a holistic framework: 42001 for overall AI governance and risk management, complemented by 27563's privacy-specific tools, ensuring balanced, compliant AI deployments that protect data while optimizing operations. Exact extract: "ISO 42001 and ISO 27563 integrate to combine AI management with privacy standards for comprehensive governance." (Reference:
Cyber Security for AI by SISA Study Guide, Section on Integrating ISO Standards, Page 280-283).

NEW QUESTION # 18

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