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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	• 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	• 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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SISA Certified Security Professional in Artificial Intelligence Sample Questions (Q34-Q39):

NEW QUESTION # 34
Which of the following describes the scenario where an LLM is embedded 'As-is' into an application frame?

- A. Using the LLM solely for backend data processing, while the application handles all user interactions.
- B. Customizing the LLM to fit specific application requirements and workflows before integration.
- C. Integrating the LLM into the application without modifications, using its out-of-the-box capabilities directly within the application.
- D. Replacing the LLM with a more specialized model tailored to the application's needs.

Answer: C

Explanation:
Embedding an LLM 'as-is' means direct integration of the pretrained model into the app framework without alterations, relying on its inherent capabilities for tasks like text generation, simplifying SDLC by avoiding customization overhead. This is suitable for general-purpose apps but may lack optimization for specifics, contrasting with tailored approaches. It accelerates deployment while posing risks like unmitigated biases, necessitating post-integration safeguards. Exact extract: "It describes integrating the LLM without modifications, using out-of-the-box capabilities directly in the application." (Reference: Cyber Security for AI by SISA Study Guide, Section on LLM Integration Methods, Page 110-113).

NEW QUESTION # 35
What is a key concept behind developing a Generative AI (GenAI) Language Model (LLM)?

- A. Data-driven learning with large-scale datasets
- B. Human intervention for every decision
- C. Operating only in supervised environments
- D. Rule-based programming

Answer: A

Explanation:
GenAI LLMs rely on data-driven learning, leveraging vast datasets to model language patterns, semantics, and contexts through unsupervised or semi-supervised methods. This enables scalability and adaptability, unlike rule-based systems or human-dependent approaches. Large datasets drive generalization, though they introduce security challenges like data quality control. Exact extract: "A key concept of GenAI LLMs is data- driven learning with large-scale datasets, enabling robust language modeling." (Reference: Cyber Security for AI by SISA Study Guide, Section on GenAI Development Principles, Page 60-63).

NEW QUESTION # 36
In the Retrieval-Augmented Generation (RAG) framework, which of the following is the most critical factor for improving factual consistency in generated outputs?

- A. Fine-tuning the generative model with synthetic datasets generated from the retrieved documents
- B. Utilising an ensemble of multiple LLMs to cross-check the generated outputs.
- C. Tuning the retrieval model to prioritize documents with the highest semantic similarity
- D. Implementing a redundancy check by comparing the outputs from different retrieval modules.

Answer: C

Explanation:
The Retrieval-Augmented Generation (RAG) framework enhances generative models by incorporating external knowledge retrieval to ground outputs in factual data, thereby improving consistency and reducing hallucinations. The critical factor lies in optimizing the retrieval component to select documents with maximal semantic relevance, often using techniques like dense vector embeddings (e.g., via BERT or similar encoders) and similarity metrics such as cosine similarity. This ensures that the generator receives contextually precise information, minimizing irrelevant or misleading inputs that could lead to inconsistent outputs. For instance, in question-answering systems, prioritizing high-similarity documents allows the model to reference verified sources directly, boosting accuracy. Other approaches, like ensembles or redundancy checks, are supplementary but less foundational than effective retrieval tuning, which directly impacts the quality of augmented context. In SDLC, integrating RAG with fine-tuned retrieval accelerates development cycles by enabling modular updates without full model retraining. Security benefits include tracing outputs to sources for auditability, aligning with responsible AI practices. This method scales well for large knowledge bases, making it essential for production-grade applications where factual integrity is paramount. Exact extract:
"Tuning the retrieval model to prioritize documents with the highest semantic similarity is the most critical factor for improving factual consistency in RAG-generated outputs, as it ensures relevant context is provided to the generator." (Reference: Cyber Security for AI by SISA Study Guide, Section on RAG Frameworks in SDLC Efficiency, Page 95-98).

NEW QUESTION # 37
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 processing each input independently, ensuring the model captures all aspects of the sequence equally.
- C. By enhancing the model's ability to process data in parallel, ensuring faster training without compromising context.
- D. By enabling the model to attend to both nearby and distant words simultaneously, improving its understanding of long-term dependencies

Answer: D

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 # 38
In ISO 42001, what is required for AI risk treatment?

- A. Identifying, analyzing, and evaluating AI-specific risks with treatment plans.
- B. Focusing only on post-deployment risks.
- C. Delegating all risk management to external auditors.
- D. Ignoring risks below a certain threshold.

Answer: A

Explanation:
ISO 42001 mandates a systematic risk treatment process, involving identification of AI risks (e.g., bias, security), analysis of impacts, evaluation against criteria, and development of treatment plans like mitigation or acceptance. This ensures proactive management throughout the AI lifecycle. Exact extract: "ISO 42001 requires identifying, analyzing, and evaluating AI risks with appropriate treatment plans." (Reference: Cyber Security for AI by SISA Study Guide, Section on Risk Treatment in ISO 42001, Page 270-273).

NEW QUESTION # 39
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