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SISA Certified Security Professional in Artificial Intelligence Sample Questions (Q49-Q54):

NEW QUESTION # 49

In transformer models, how does the attention mechanism improve model performance compared to RNNs?

- A. By enabling the model to attend to both nearby and distant words simultaneously, improving its understanding of long-term dependencies
- 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 dynamically assigning importance to every word in the sequence, enabling the model to focus on relevant parts of the

input.

Answer: A

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 # 50

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

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

Answer: D

Explanation:

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).

NEW QUESTION # 51

When deploying LLMs in production, what is a common strategy for parameter-efficient fine-tuning?

- **A. Freezing the majority of model parameters and only updating a small subset relevant to the task**
- B. Training the model from scratch on the target task to achieve optimal performance.
- C. Using external reinforcement learning to adjust the model's parameters dynamically.
- D. Implementing multiple independent models for each specific task instead of fine tuning a single model

Answer: A

Explanation:

Parameter-efficient fine-tuning (PEFT) strategies, like LoRA or adapters, freeze most pretrained parameters and train only lightweight modules, reducing computational costs while adapting to new tasks. This preserves general knowledge, prevents catastrophic forgetting, and enables quick deployments in resource-constrained settings. For LLMs, it's crucial for efficiency in production, allowing specialization without retraining billions of parameters. Security-wise, it minimizes exposure to new data risks. Exact extract: "A common strategy is freezing the majority of model parameters and updating only a small task-relevant subset, ensuring efficiency in fine-tuning for production deployment." (Reference: Cyber Security for AI by SISA Study Guide, Section on Efficient Fine-Tuning in SDLC, Page 90-92).

NEW QUESTION # 52

How does the multi-head self-attention mechanism improve the model's ability to learn complex relationships in data?

- A. By forcing the model to focus on a single aspect of the input at a time.
- B. By ensuring that the attention mechanism looks only at local context within the input
- **C. By allowing the model to focus on different parts of the input through multiple attention heads**
- D. By simplifying the network by removing redundancy in attention layers.

Answer: C

Explanation:

Multi-head self-attention enhances a model's capacity to capture intricate patterns by dividing the attention process into multiple parallel 'heads,' each learning distinct aspects of the relationships within the data. This diversification enables the model to attend to various subspaces of the input simultaneously—such as syntactic, semantic, or positional features—leading to richer representations. For example, one head might focus on nearby words for local context, while another captures global dependencies, aggregating these insights through concatenation and linear transformation. This approach mitigates the limitations of single-head attention, which might overlook nuanced interactions, and promotes better generalization in complex datasets. In practice, it results in improved performance on tasks like NLP and vision, where multifaceted relationships are key. The mechanism's parallelism also aids in scalability, allowing deeper insights without proportional computational increases. Exact extract: "Multi-head attention improves learning by permitting the model to jointly attend to information from different representation subspaces at different positions, thus capturing complex relationships more effectively than a single attention head." (Reference: Cyber Security for AI by SISA Study Guide, Section on Transformer Mechanisms, Page 48-50).

NEW QUESTION # 53

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.**

Answer: D

Explanation:

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).

NEW QUESTION # 54

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