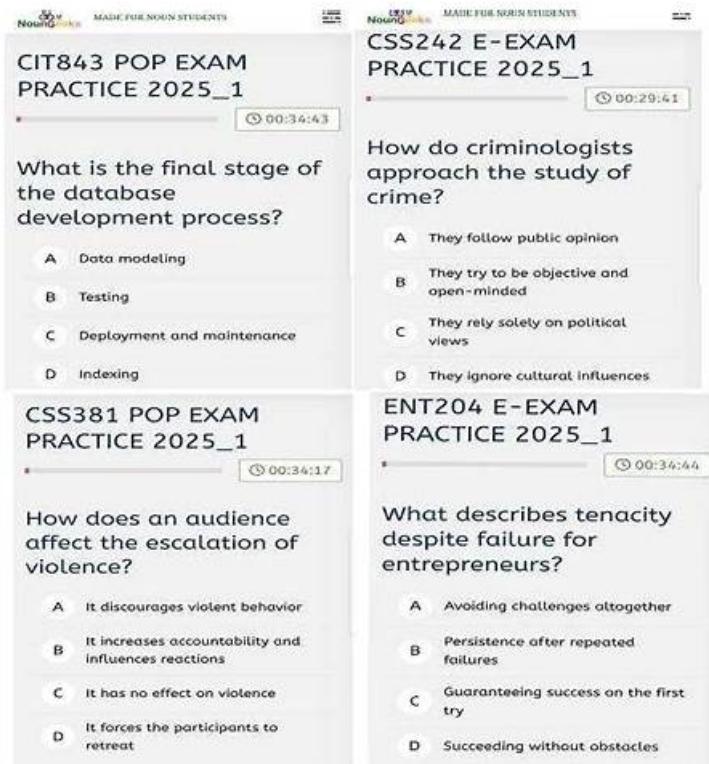


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SISA Certified Security Professional in Artificial Intelligence Sample Questions (Q29-Q34):

NEW QUESTION # 29

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. Implementing multiple independent models for each specific task instead of fine tuning a single model

- C. Using external reinforcement learning to adjust the model's parameters dynamically.
- D. Training the model from scratch on the target task to achieve optimal performance.

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 # 30

A company developing AI-driven medical diagnostic tools is expanding into the European market. To ensure compliance with local regulations, what should be the company's primary focus in adhering to the EU AI Act?

- A. Focusing on integrating ethical guidelines to ensure AI decisions are fair and unbiased.
- B. Ensuring the AI system meets stringent privacy standards to protect sensitive data
- C. Prioritizing transparency and accountability in AI systems to avoid high-risk categorization
- D. **Implementing measures to prevent any harmful outcomes and ensure AI system safety**

Answer: D

Explanation:

The EU AI Act classifies AI systems by risk, with medical diagnostics as high-risk, requiring stringent safety measures to prevent harm, such as misdiagnoses. Compliance prioritizes robust testing, validation, and monitoring to ensure safe outcomes, aligning with ISO 42001's risk management framework. While ethics and privacy are critical, safety is the primary focus to meet regulatory thresholds and protect users. Exact extract: "The EU AI Act emphasizes implementing measures to prevent harmful outcomes and ensure AI system safety, particularly for high-risk applications like medical diagnostics." (Reference: Cyber Security for AI by SISA Study Guide, Section on EU AI Act Compliance, Page 175-178).

NEW QUESTION # 31

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

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

Answer: B

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 # 32

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

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

Answer: A

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 # 33

What is a potential risk associated with hallucinations in LLMs, and how should it be addressed to ensure Responsible AI?

- A. Hallucinations can lead to creative outputs, which are beneficial for all applications; hence, no measures are necessary.
- B. Hallucinations are primarily due to overfitting; regularization techniques should be applied during training.
- C. Hallucinations cause models to slow down; optimizing hardware performance is necessary to mitigate this issue.
- D. Hallucinations can produce inaccurate or misleading information; it should be addressed by incorporating external knowledge bases and retrieval systems.

Answer: D

Explanation:

Hallucinations in LLMs risk generating inaccurate or misleading outputs, undermining trust and safety.

Incorporating external knowledge bases and retrieval systems, like RAG, grounds responses in verified data, reducing fabrications and aligning with Responsible AI principles. Regularization helps but is secondary to factual grounding. Exact extract: "Hallucinations produce misleading information, addressed by incorporating external knowledge bases and retrieval systems for Responsible AI." (Reference: Cyber Security for AI by SISA Study Guide, Section on LLM Hallucination Mitigation, Page 125-128).

NEW QUESTION # 34

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