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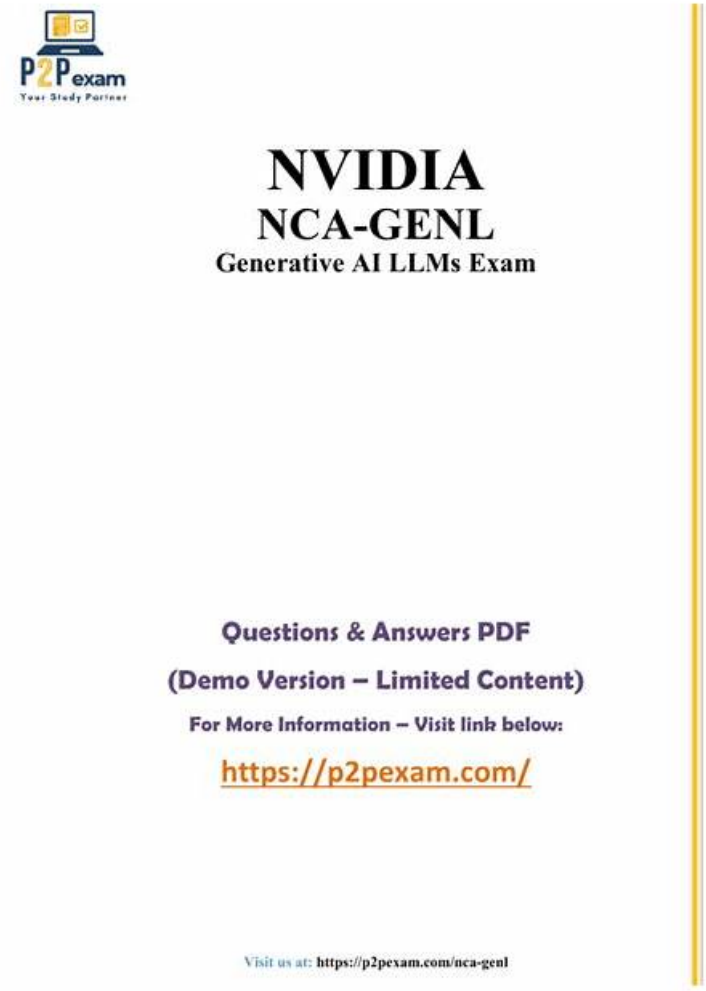

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NVIDIA Generative AI LLMs Sample Questions (Q45-Q50):

NEW QUESTION # 45
What is the main consequence of the scaling law in deep learning for real-world applications?

- A. Small and medium error regions can approach the results of the big data region.
- B. The best performing model can be established even in the small data region.
- C. In the power-law region, with more data it is possible to achieve better results.
- D. With more data, it is possible to exceed the irreducible error region.

Answer: C

Explanation:
The scaling law in deep learning, as covered in NVIDIA's Generative AI and LLMs course, describes the relationship between model performance, data size, model size, and computational resources. In the power- law region, increasing the amount of data, model parameters, or compute power leads to predictable improvements in performance, as errors decrease following a power-law trend. This has significant implications for real-world applications, as it suggests that scaling up data and resources can yield better results, particularly for large language models (LLMs). Option A is incorrect, as the irreducible error represents the inherent noise in the data, which cannot be exceeded regardless of data size. Option B is wrong, as small data regions typically yield suboptimal performance compared to scaled models. Option C is misleading, as small and medium data regimes do not typically match big data performance without scaling.
The course highlights: "In the power-law region of the scaling law, increasing data and compute resources leads to better model performance, driving advancements in real-world deep learning applications." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 46
How can Retrieval Augmented Generation (RAG) help developers to build a trustworthy AI system?

- A. RAG can enhance the security features of AI systems, ensuring confidential computing and encrypted traffic.
- B. RAG can align AI models with one another, improving the accuracy of AI systems through cross- checking.
- C. RAG can generate responses that cite reference material from an external knowledge base, ensuring transparency and verifiability.
- D. RAG can improve the energy efficiency of AI systems, reducing their environmental impact and cooling requirements.

Answer: C

Explanation:
Retrieval-Augmented Generation (RAG) enhances trustworthy AI by generating responses that cite reference material from an external knowledge base, ensuring transparency and verifiability, as discussed in NVIDIA's Generative AI and LLMs course. RAG combines a retriever to fetch relevant documents with a generator to produce responses, allowing outputs to be grounded in verifiable sources, reducing hallucinations and improving trust. Option A is incorrect, as RAG does not focus on security features like confidential computing. Option B is wrong, as RAG is unrelated to energy efficiency. Option C is inaccurate, as RAG does not align models but integrates retrieved knowledge. The course notes: "RAG enhances trustworthy AI by generating responses with citations from external knowledge bases, improving transparency and verifiability of outputs." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 47
In the evaluation of Natural Language Processing (NLP) systems, what do 'validity' and 'reliability' imply regarding the selection of evaluation metrics?

- A. Validity is concerned with the metric's computational cost, while reliability is about its applicability across different NLP platforms.
- B. Validity ensures the metric accurately reflects the intended property to measure, while reliability ensures consistent results over repeated measurements.
- C. Validity refers to the speed of metric computation, whereas reliability pertains to the metric's performance in high-volume data processing.

- D. Validity involves the metric's ability to predict future trends in data, and reliability refers to its capacity to integrate with multiple data sources.

Answer: B

Explanation:
In evaluating NLP systems, as discussed in NVIDIA's Generative AI and LLMs course, validity and reliability are critical for selecting evaluation metrics. Validity ensures that a metric accurately measures the intended property (e.g., BLEU for translation quality or F1-score for classification performance), reflecting the system's true capability. Reliability ensures that the metric produces consistent results across repeated measurements under similar conditions, indicating stability and robustness. Together, these ensure trustworthy evaluations. Option A is incorrect, as validity is not about predicting trends, and reliability is not about data source integration. Option C is wrong, as validity and reliability are not primarily about computational cost or platform applicability. Option D is inaccurate, as validity and reliability do not focus on computation speed or high-volume processing. The course notes: "Validity ensures NLP evaluation metrics accurately measure the intended property, while reliability ensures consistent results across repeated evaluations, critical for robust system assessment." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 48
Which of the following best describes the purpose of attention mechanisms in transformer models?

- A. To generate random noise for improved model robustness.
- B. To convert text into numerical representations.
- C. To compress the input sequence for faster processing.
- D. To focus on relevant parts of the input sequence for use in the downstream task.

Answer: D

Explanation:
Attention mechanisms in transformer models, as introduced in "Attention is All You Need" (Vaswani et al.,
2017), allow the model to focus on relevant parts of the input sequence by assigning higher weights to important tokens during processing. NVIDIA's NeMo documentation explains that self-attention enables transformers to capture long-range dependencies and contextual relationships, making them effective for tasks like language modeling and translation. Option B is incorrect, as attention does not compress sequences but processes them fully. Option C is false, as attention is not about generating noise. Option D refers to embeddings, not attention.
References:
Vaswani, A., et al. (2017). "Attention is All You Need."
NVIDIA NeMo Documentation:https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp
/intro.html

NEW QUESTION # 49
When designing prompts for a large language model to perform a complex reasoning task, such as solving a multi-step mathematical problem, which advanced prompt engineering technique is most effective in ensuring robust performance across diverse inputs?

- A. Few-shot prompting with randomly selected examples.
- B. Retrieval-augmented generation with external mathematical databases.
- C. Zero-shot prompting with a generic task description.
- D. Chain-of-thought prompting with step-by-step reasoning examples.

Answer: D

Explanation:
Chain-of-thought (CoT) prompting is an advanced prompt engineering technique that significantly enhances a large language model's (LLM) performance on complex reasoning tasks, such as multi-step mathematical problems. By including examples that explicitly demonstrate step-by-step reasoning in the prompt, CoT guides the model to break down the problem into intermediate steps, improving accuracy and robustness.
NVIDIA's NeMo documentation on prompt engineering highlights CoT as a powerful method for tasks requiring logical or sequential reasoning, as it leverages the model's ability to mimic structured problem- solving. Research by Wei et al. (2022) demonstrates that CoT outperforms other methods for mathematical reasoning. Option A (zero-shot) is less effective for complex tasks due to lack of guidance. Option B (few- shot with random examples) is suboptimal without structured reasoning. Option D

(RAG) is useful for factual queries but less relevant for pure reasoning tasks.
References:
NVIDIA NeMo Documentation: https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp/intro.html
Wei, J., et al. (2022). "Chain-of-Thought Prompting Elicits Reasoning in Large Language Models."

NEW QUESTION # 50
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