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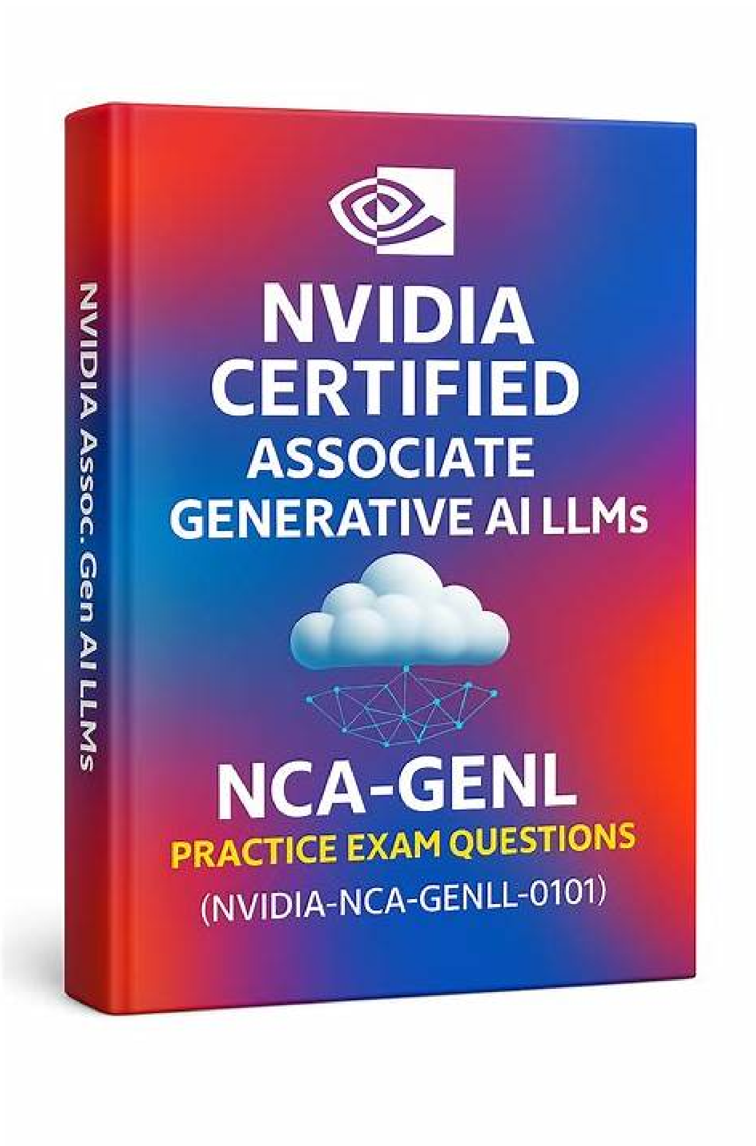

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Answers

It is universally accepted that the exam is a tough nut to crack for the majority of candidates, but the related NCA-GENL certification is of great significance for workers in this field so that many workers have to meet the challenge. Fortunately, you need not to worry about this sort of question any more, since you can find the best solution in this website--our NCA-GENL Training Materials. With our continued investment in technology, people and facilities, the future of our company has never looked so bright. There are so many advantages of our NCA-GENL practice test and I would like to give you a brief introduction now.

NVIDIA Generative AI LLMs Sample Questions (Q95-Q100):

NEW QUESTION # 95
Transformers are useful for language modeling because their architecture is uniquely suited for handling which of the following?

- A. Class tokens
- B. Translations
- C. Embeddings
- D. Long sequences

Answer: D

Explanation:
The transformer architecture, introduced in "Attention is All You Need" (Vaswani et al., 2017), is particularly effective for language modeling due to its ability to handle long sequences. Unlike RNNs, which struggle with long-term dependencies due to sequential processing, transformers use self-attention mechanisms to process all tokens in a sequence simultaneously, capturing relationships across long distances. NVIDIA's NeMo documentation emphasizes that transformers excel in tasks like language modeling because their attention mechanisms scale well with sequence length, especially with optimizations like sparse attention or efficient attention variants. Option B (embeddings) is a component, not a unique strength. Option C (class tokens) is specific to certain models like BERT, not a general transformer feature. Option D (translations) is an application, not a structural advantage.
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 # 96
You are working on developing an application to classify images of animals and need to train a neural model.
However, you have a limited amount of labeled data. Which technique can you use to leverage the knowledge from a model pre-trained on a different task to improve the performance of your new model?

- A. Dropout
- B. Early stopping
- C. Random initialization
- D. Transfer learning

Answer: D

Explanation:
Transfer learning is a technique where a model pre-trained on a large, general dataset (e.g., ImageNet for computer vision) is fine-tuned for a specific task with limited data. NVIDIA's Deep Learning AI documentation, particularly for frameworks like NeMo and TensorRT, emphasizes transfer learning as a powerful approach to improve model performance when labeled data is scarce. For example, a pre-trained convolutional neural network (CNN) can be fine-tuned for animal image classification by reusing its learned features (e.g., edge detection) and adapting the final layers to the new task. Option A (dropout) is a regularization technique, not a knowledge transfer method. Option B (random initialization) discards pre- trained knowledge. Option D (early stopping) prevents overfitting but does not leverage pre-trained models.
References:
NVIDIA NeMo Documentation: https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp
/model_finetuning.html
NVIDIA Deep Learning AI:https://www.nvidia.com/en-us/deep-learning-ai/

NEW QUESTION # 97

What are the main advantages of instructed large language models over traditional, small language models (< 300M parameters)? (Pick the 2 correct responses)

- A. Cheaper computational costs during inference.
- B. Single generic model can do more than one task.
- C. Smaller latency, higher throughput.
- D. It is easier to explain the predictions.
- E. Trained without the need for labeled data.

Answer: A,B

Explanation:
Instructed large language models (LLMs), such as those supported by NVIDIA's NeMo framework, have significant advantages over smaller, traditional models:
* Option D: LLMs often have cheaper computational costs during inference for certain tasks because they can generalize across multiple tasks without requiring task-specific retraining, unlike smaller models that may need separate models per task.
References:
NVIDIA NeMo Documentation: https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp /intro.html
Brown, T., et al. (2020). "Language Models are Few-Shot Learners."

NEW QUESTION # 98
Which of the following is a parameter-efficient fine-tuning approach that one can use to fine-tune LLMs in a memory-efficient fashion?

- A. Chinchilla
- B. TensorRT
- C. LoRA
- D. NeMo

Answer: C

Explanation:
LoRA (Low-Rank Adaptation) is a parameter-efficient fine-tuning approach specifically designed for large language models (LLMs), as covered in NVIDIA's Generative AI and LLMs course. It fine-tunes LLMs by updating a small subset of parameters through low-rank matrix factorization, significantly reducing memory and computational requirements compared to full fine-tuning. This makes LoRA ideal for adapting large models to specific tasks while maintaining efficiency. Option A, TensorRT, is incorrect, as it is an inference optimization library, not a fine-tuning method. Option B, NeMo, is a framework for building AI models, not a specific fine-tuning technique. Option C, Chinchilla, is a model, not a fine-tuning approach. The course emphasizes: "Parameter-efficient fine-tuning methods like LoRA enable memory-efficient adaptation of LLMs by updating low-rank approximations of weight matrices, reducing resource demands while maintaining performance." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 99
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. Chain-of-thought prompting with step-by-step reasoning examples.
- B. Few-shot prompting with randomly selected examples.
- C. Retrieval-augmented generation with external mathematical databases.
- D. Zero-shot prompting with a generic task description.

Answer: A

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 # 100
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