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NVIDIA Generative AI LLMs Sample Questions (Q20-Q25):

NEW QUESTION # 20

What is Retrieval Augmented Generation (RAG)?

- A. RAG is a technique used to fine-tune pre-trained LLMs for improved performance.
- B. RAG is a method for manipulating and generating text-based data using Transformer-based LLMs.
- **C. RAG is a methodology that combines an information retrieval component with a response generator.**
- D. RAG is an architecture used to optimize the output of an LLM by retraining the model with domain-specific data.

Answer: C

Explanation:

Retrieval-Augmented Generation (RAG) is a methodology that enhances the performance of large language models (LLMs) by integrating an information retrieval component with a generative model. As described in the seminal paper by Lewis et al. (2020), RAG retrieves relevant documents from an external knowledge base (e.g., using dense vector representations) and uses them to inform the generative process, enabling more accurate and contextually relevant responses. NVIDIA's documentation on generative AI workflows, particularly in the context of NeMo and Triton Inference Server, highlights RAG as a technique to improve LLM

outputs by grounding them in external data, especially for tasks requiring factual accuracy or domain-specific knowledge. Option A is incorrect because RAG does not involve retraining the model but rather augments it with retrieved data. Option C is too vague and does not capture the retrieval aspect, while Option D refers to fine-tuning, which is a separate process.

References:

Lewis, P., et al. (2020). "Retrieval-Augmented Generation for Knowledge-Intensive NLP Tasks." NVIDIA NeMo Documentation: <https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp/intro.html>

NEW QUESTION # 21

What is the purpose of the NVIDIA NeMo Toolkit?

- A. NeMo helps researchers develop state-of-the-art models for computer vision based on convolutions.
- B. NeMo helps researchers to develop models that trade-off size with minimum loss impact.
- C. NeMo focuses on the morphology of a language by studying its words, and how they are formed.
- **D. NeMo facilitates the creation of models for speech recognition and natural language understanding.**

Answer: D

Explanation:

The NVIDIA NeMo Toolkit is a scalable, open-source framework designed to facilitate the development of state-of-the-art conversational AI models, particularly for Automatic Speech Recognition (ASR), Natural Language Processing (NLP), and Text-to-Speech (TTS). As highlighted in NVIDIA's Generative AI and LLMs course, NeMo provides modular, pre-built components and pre-trained models that researchers and developers can customize and fine-tune for tasks like speech recognition and natural language understanding.

It supports multi-GPU and multi-node training, leveraging PyTorch for efficient model development. Option A is incorrect, as NeMo does not focus on language morphology but on building AI models. Option B is wrong, as NeMo's primary goal is not model size trade-offs but comprehensive conversational AI development. Option D is inaccurate, as NeMo primarily targets speech and language tasks, not computer vision. The course notes: "NVIDIA NeMo is a toolkit for building conversational AI models, including Automatic Speech Recognition (ASR), Natural Language Processing (NLP), and Text-to-Speech (TTS) models, enabling researchers to create and deploy advanced AI solutions." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA NeMo Framework User Guide.

NEW QUESTION # 22

Which tool would you use to select training data with specific keywords?

- A. ActionScript
- **B. Regular expression filter**
- C. JSON parser
- D. Tableau dashboard

Answer: B

Explanation:

Regular expression (regex) filters are widely used in data preprocessing to select text data containing specific keywords or patterns. NVIDIA's documentation on data preprocessing for NLP tasks, such as in NeMo, highlights regex as a standard tool for filtering datasets based on textual criteria, enabling efficient data curation. For example, a regex pattern like `*keyword.*` can select all texts containing "keyword." Option A (ActionScript) is a programming language for multimedia, not data filtering. Option B (Tableau) is for visualization, not text filtering. Option C (JSON parser) is for structured data, not keyword-based text selection.

References:

NVIDIA NeMo Documentation: <https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp/intro.html>

NEW QUESTION # 23

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. LoRA
- C. NeMo
- D. TensorRT

Answer: B

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 # 24

Which library is used to accelerate data preparation operations on the GPU?

- A. cuGraph
- B. cuML
- C. cuDF
- D. XGBoost

Answer: C

Explanation:

cuDF is a GPU-accelerated data manipulation library within the RAPIDS ecosystem, designed to speed up data preparation operations such as filtering, joining, and aggregating large datasets. As highlighted in NVIDIA's Generative AI and LLMs course, cuDF provides pandas-like functionality for data preprocessing but leverages GPU parallelism to achieve significant performance improvements, making it ideal for data science workflows involving large-scale data preparation. Option A, cuML, is incorrect, as it focuses on machine learning algorithms, not data preparation. Option B, XGBoost, is a gradient boosting framework, not a data preparation library. Option D, cuGraph, is used for graph analytics, not general data preparation. The course notes: "RAPIDS cuDF accelerates data preparation operations by enabling GPU-based processing, offering pandas-like functionality with significant speedups for tasks like data filtering and transformation." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 25

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