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NVIDIA Generative AI LLMs Sample Questions (Q91-Q96):

NEW QUESTION # 91

In the context of preparing a multilingual dataset for fine-tuning an LLM, which preprocessing technique is most effective for handling text from diverse scripts (e.g., Latin, Cyrillic, Devanagari) to ensure consistent model performance?

- A. Converting text to phonetic representations for cross-lingual alignment.
- **B. Applying Unicode normalization to standardize character encodings.**
- C. Normalizing all text to a single script using transliteration.
- D. Removing all non-Latin characters to simplify the input.

Answer: B

Explanation:

When preparing a multilingual dataset for fine-tuning an LLM, applying Unicode normalization (e.g., NFKC or NFC forms) is the most effective preprocessing technique to handle text from diverse scripts like Latin, Cyrillic, or Devanagari. Unicode normalization standardizes character encodings, ensuring that visually identical characters (e.g., precomposed vs. decomposed forms) are represented consistently, which improves model performance across languages. NVIDIA's NeMo documentation on multilingual NLP preprocessing recommends Unicode normalization to address encoding inconsistencies in diverse datasets. Option A (transliteration) may lose linguistic nuances. Option C (removing non-Latin characters) discards critical information. Option D (phonetic conversion) is impractical for text-based LLMs.

References:

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

NEW QUESTION # 92

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

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 # 93

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

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

Answer: D,E

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 # 94

Which of the following tasks is a primary application of XGBoost and cuML?

- **A. Performing GPU-accelerated machine learning tasks**
- B. Data visualization and analysis
- C. Inspecting, cleansing, and transforming data
- D. Training deep learning models

Answer: A

Explanation:

Both XGBoost (with its GPU-enabled training) and cuML offer GPU-accelerated implementations of machine learning algorithms, such as gradient boosting, clustering, and dimensionality reduction, enabling much faster model training and inference.

NEW QUESTION # 95

Which aspect in the development of ethical AI systems ensures they align with societal values and norms?

- A. Developing AI systems with autonomy from human decision-making.
- B. Achieving the highest possible level of prediction accuracy in AI models.
- **C. Ensuring AI systems have explicable decision-making processes.**
- D. Implementing complex algorithms to enhance AI's problem-solving capabilities.

Answer: C

Explanation:

Ensuring explicable decision-making processes, often referred to as explainability or interpretability, is critical for aligning AI systems with societal values and norms. NVIDIA's Trustworthy AI framework emphasizes that explainable AI allows stakeholders to understand how decisions are made, fostering trust and ensuring compliance with ethical standards. This is particularly important for addressing biases and ensuring fairness. Option A (prediction accuracy) is important but does not guarantee ethical alignment. Option B (complex algorithms) may improve performance but not societal alignment. Option C (autonomy) can conflict with ethical oversight, making it less desirable.

References:

NVIDIA Trustworthy AI: <https://www.nvidia.com/en-us/ai-data-science/trustworthy-ai/>

NEW QUESTION # 96

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