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NVIDIA Generative AI LLMs Sample Questions (Q93-Q98):

NEW QUESTION # 93
In the context of data preprocessing for Large Language Models (LLMs), what does tokenization refer to?

- A. Splitting text into smaller units like words or subwords.
- B. Removing stop words from the text.
- C. Converting text into numerical representations.
- D. Applying data augmentation techniques to generate more training data.

Answer: A

Explanation:
Tokenization is the process of splitting text into smaller units, such as words, subwords, or characters, which serve as the basic units for processing by LLMs. NVIDIA's NeMo documentation on NLP preprocessing explains that tokenization is a critical step in preparing text data, with popular tokenizers (e.g., WordPiece, BPE) breaking text into subword units to handle out-of-vocabulary

words and improve model efficiency. For example, the sentence "I love AI" might be tokenized into ["I", "love", "AI"] or subword units like ["I",
"lov", "##e", "AI"]. Option B (numerical representations) refers to embedding, not tokenization. Option C (removing stop words) is a separate preprocessing step. Option D (data augmentation) is unrelated to tokenization.
References:
NVIDIA NeMo Documentation: https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp
/intro.html

NEW QUESTION # 94
What is the primary purpose of applying various image transformation techniques (e.g., flipping, rotation, zooming) to a dataset?

- A. To reduce the computational resources required for training deep learning models.
- B. To artificially expand the dataset's size and improve the model's ability to generalize.
- C. To simplify the model's architecture, making it easier to interpret the results.
- D. To ensure perfect alignment and uniformity across all images in the dataset.

Answer: B

Explanation:
Image transformation techniques such as flipping, rotation, and zooming are forms of data augmentation used to artificially increase the size and diversity of a dataset. NVIDIA's Deep Learning AI documentation, particularly for computer vision tasks using frameworks like DALI (Data Loading Library), explains that data augmentation improves a model's ability to generalize by exposing it to varied versions of the training data, thus reducing overfitting. For example, flipping an image horizontally creates a new training sample that helps the model learn invariance to certain transformations. Option A is incorrect because transformations do not simplify the model architecture. Option C is wrong, as augmentation introduces variability, not uniformity. Option D is also incorrect, as augmentation typically increases computational requirements due to additional data processing.
References:
NVIDIA DALI Documentation: https://docs.nvidia.com/deeplearning/dali/user-guide/docs/index.html

NEW QUESTION # 95
Which of the following best describes the purpose of attention mechanisms in transformer models?

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

Answer: A

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 # 96
When deploying an LLM using NVIDIA Triton Inference Server for a real-time chatbot application, which optimization technique is most effective for reducing latency while maintaining high throughput?

- A. Switching to a CPU-based inference engine for better scalability.
- B. Increasing the model's parameter count to improve response quality.

- C. Enabling dynamic batching to process multiple requests simultaneously.
- D. Reducing the input sequence length to minimize token processing.

Answer: C

Explanation:
NVIDIA Triton Inference Server is designed for high-performance model deployment, and dynamicbatching is a key optimization technique for reducing latency while maintaining high throughput in real-time applications like chatbots. Dynamic batching groups multiple inference requests into a single batch, leveraging GPU parallelism to process them simultaneously, thus reducing per-request latency. According to NVIDIA's Triton documentation, this is particularly effective for LLMs with variable input sizes, as it maximizes resource utilization. Option A is incorrect, as increasing parameters increases latency. Option C may reduce latency but sacrifices context and quality. Option D is false, as CPU-based inference is slower than GPU-based for LLMs.
References:
NVIDIA Triton Inference Server Documentation: https://docs.nvidia.com/deeplearning/triton-inference-server /user-guide/docs/index.html

NEW QUESTION # 97
When designing an experiment to compare the performance of two LLMs on a question-answering task, which statistical test is most appropriate to determine if the difference in their accuracy is significant, assuming the data follows a normal distribution?

- A. Chi-squared test
- B. Mann-Whitney U test
- C. ANOVA test
- D. Paired t-test

Answer: D

Explanation:
The paired t-test is the most appropriate statistical test to compare the performance (e.g., accuracy) of two large language models (LLMs) on the same question-answering dataset, assuming the data follows a normal distribution. This test evaluates whether the mean difference in paired observations (e.g., accuracy on each question) is statistically significant. NVIDIA's documentation on model evaluation in NeMo suggests using paired statistical tests for comparing model performance on identical datasets to account for correlated errors.
Option A (Chi-squared test) is for categorical data, not continuous metrics like accuracy. Option C (Mann- Whitney U test) is non-parametric and used for non-normal data. Option D (ANOVA) is for comparing more than two groups, not two models.
References:
NVIDIA NeMo Documentation: https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp /model_finetuning.html

NEW QUESTION # 98
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