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NVIDIA Generative AI LLMs Sample Questions (Q96-Q101):

NEW QUESTION # 96

Why might stemming or lemmatizing text be considered a beneficial preprocessing step in the context of computing TF-IDF vectors for a corpus?

- A. It reduces the number of unique tokens by collapsing variant forms of a word into their root form, potentially decreasing noise in the data.
- B. It increases the complexity of the dataset by introducing more unique tokens, enhancing the distinctiveness of each document.
- C. It enhances the aesthetic appeal of the text, making it easier for readers to understand the document's content.
- D. It guarantees an increase in the accuracy of TF-IDF vectors by ensuring more precise word usage distinction.

Answer: A

Explanation:

Stemming and lemmatizing are preprocessing techniques in NLP that reduce words to their root or base form, as discussed in

NVIDIA's Generative AI and LLMs course. In the context of computing TF-IDF (Term Frequency-Inverse Document Frequency) vectors, these techniques are beneficial because they collapse variant forms of a word (e.g., "running," "ran" to "run") into a single token, reducing the number of unique tokens in the corpus. This decreases noise and dimensionality, improving the efficiency and effectiveness of TF-IDF representations for tasks like document classification or clustering. Option B is incorrect, as stemming and lemmatizing are not about aesthetics but about data preprocessing. Option C is wrong, as these techniques reduce, not increase, the number of unique tokens. Option D is inaccurate, as they do not guarantee accuracy improvements but rather reduce noise. The course states: "Stemming and lemmatizing reduce the number of unique tokens in a corpus by normalizing word forms, improving the quality of TF-IDF vectors by minimizing noise and dimensionality." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 97

Which of the following claims is correct about quantization in the context of Deep Learning? (Pick the 2 correct responses)

- A. Quantization might help in saving power and reducing heat production.
- B. Helps reduce memory requirements and achieve better cache utilization.
- C. It only involves reducing the number of bits of the parameters.
- D. It leads to a substantial loss of model accuracy.
- E. It consists of removing a quantity of weights whose values are zero.

Answer: A,B

Explanation:

Quantization in deep learning involves reducing the precision of model weights and activations (e.g., from 32-bit floating-point to 8-bit integers) to optimize performance. According to NVIDIA's documentation on model optimization and deployment (e.g., TensorRT and Triton Inference Server), quantization offers several benefits:

* Option A: Quantization reduces power consumption and heat production by lowering the computational intensity of operations, making it ideal for edge devices.

References:

NVIDIA TensorRT Documentation: <https://docs.nvidia.com/deeplearning/tensorrt/developer-guide/index.html> NVIDIA Triton

Inference Server Documentation: <https://docs.nvidia.com/deeplearning/triton-inference-server/user-guide/docs/index.html>

NEW QUESTION # 98

Which Python library is specifically designed for working with large language models (LLMs)?

- A. Pandas
- B. Scikit-learn
- C. HuggingFace Transformers
- D. NumPy

Answer: C

Explanation:

The HuggingFace Transformers library is specifically designed for working with large language models (LLMs), providing tools for model training, fine-tuning, and inference with transformer-based architectures (e.g., BERT, GPT, T5). NVIDIA's NeMo documentation often references HuggingFace Transformers for NLP tasks, as it supports integration with NVIDIA GPUs and frameworks like PyTorch for optimized performance.

Option A (NumPy) is for numerical computations, not LLMs. Option B (Pandas) is for data manipulation, not model-specific tasks. Option D (Scikit-learn) is for traditional machine learning, not transformer-based LLMs.

Option C (HuggingFace Transformers) is specifically designed for working with large language models (LLMs).

References:

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

HuggingFace Transformers Documentation: <https://huggingface.co/docs/transformers/index>

NEW QUESTION # 99

What distinguishes BLEU scores from ROUGE scores when evaluating natural language processing models?

- A. BLEU scores measure model efficiency, whereas ROUGE scores assess computational complexity.

- B. BLEU scores determine the fluency of text generation, while ROUGE scores rate the uniqueness of generated text.
- **C. BLEU scores evaluate the 'precision' of translations, while ROUGE scores focus on the 'recall' of summarized text.**
- D. BLEU scores analyze syntactic structures, while ROUGE scores evaluate semantic accuracy.

Answer: C

Explanation:

BLEU (Bilingual Evaluation Understudy) and ROUGE (Recall-Oriented Understudy for Gisting Evaluation) are metrics used to evaluate natural language processing (NLP) models, particularly for tasks like machine translation and text summarization. According to NVIDIA's NeMo documentation on NLP evaluation metrics, BLEU primarily measures the precision of n-gram overlaps between generated and reference translations, making it suitable for assessing translation quality. ROUGE, on the other hand, focuses on recall, measuring the overlap of n-grams, longest common subsequences, or skip-bigrams between generated and reference summaries, making it ideal for summarization tasks. Option A is incorrect, as BLEU and ROUGE do not measure fluency or uniqueness directly. Option B is wrong, as both metrics focus on n-gram overlap, not syntactic or semantic analysis. Option D is false, as neither metric evaluates efficiency or complexity.

References:

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

Papineni, K., et al. (2002). "BLEU: A Method for Automatic Evaluation of Machine Translation." Lin, C.-Y. (2004). "ROUGE: A Package for Automatic Evaluation of Summaries."

NEW QUESTION # 100

Which technique is used in prompt engineering to guide LLMs in generating more accurate and contextually appropriate responses?

- A. Choosing another model architecture.
- B. Increasing the model's parameter count.
- C. Training the model with additional data.
- **D. Leveraging the system message.**

Answer: D

Explanation:

Prompt engineering involves designing inputs to guide large language models (LLMs) to produce desired outputs without modifying the model itself. Leveraging the system message is a key technique, where a predefined instruction or context is provided to the LLM to set the tone, role, or constraints for its responses.

NVIDIA's NeMo framework documentation on conversational AI highlights the use of system messages to improve the contextual accuracy of LLMs, especially in dialogue systems or task-specific applications. For instance, a system message like "You are a helpful technical assistant" ensures responses align with the intended role. Options A, B, and C involve model training or architectural changes, which are not part of prompt engineering.

References:

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

NEW QUESTION # 101

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