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## NVIDIA Generative AI LLMs Sample Questions (Q32-Q37):

### NEW QUESTION # 32

When preprocessing text data for an LLM fine-tuning task, why is it critical to apply subword tokenization (e.g., Byte-Pair Encoding) instead of word-based tokenization for handling rare or out-of-vocabulary words?

- A. Subword tokenization creates a fixed-size vocabulary to prevent memory overflow.
- B. Subword tokenization reduces the model's computational complexity by eliminating embeddings.
- C. Subword tokenization removes punctuation and special characters to simplify text input.
- **D. Subword tokenization breaks words into smaller units, enabling the model to generalize to unseen words.**

**Answer: D**

Explanation:

Subword tokenization, such as Byte-Pair Encoding (BPE) or WordPiece, is critical for preprocessing text data in LLM fine-tuning

because it breaks words into smaller units (subwords), enabling the model to handle rare or out-of-vocabulary (OOV) words effectively. NVIDIA's NeMo documentation on tokenization explains that subword tokenization creates a vocabulary of frequent subword units, allowing the model to represent unseen words by combining known subwords (e.g., "unseen" as "un" + "##seen"). This improves generalization compared to word-based tokenization, which struggles with OOV words. Option A is incorrect, as tokenization does not eliminate embeddings. Option B is false, as vocabulary size is not fixed but optimized. Option D is wrong, as punctuation handling is a separate preprocessing step.

References:

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

### NEW QUESTION # 33

What statement best describes the diffusion models in generative AI?

- A. Diffusion models are generative models that use a transformer architecture to learn the underlying probability distribution of the data.
- B. Diffusion models are unsupervised models that use clustering algorithms to group similar data points together.
- C. Diffusion models are probabilistic generative models that progressively inject noise into data, then learn to reverse this process for sample generation.
- D. Diffusion models are discriminative models that use gradient-based optimization algorithms to classify data points.

**Answer: C**

Explanation:

Diffusion models, as discussed in NVIDIA's Generative AI and LLMs course, are probabilistic generative models that operate by progressively adding noise to data in a forward process and then learning to reverse this process to generate new samples. This involves a Markov chain that gradually corrupts data with noise and a reverse process that denoises it to reconstruct realistic samples, making them powerful for generating high-quality images, text, and other data. Unlike Transformer-based models, diffusion models rely on this iterative denoising mechanism. Option B is incorrect, as diffusion models are generative, not discriminative, and focus on data generation, not classification. Option C is wrong, as diffusion models do not use clustering algorithms but focus on generative tasks. Option D is inaccurate, as diffusion models do not inherently rely on Transformer architectures but use distinct denoising processes. The course states: "Diffusion models are probabilistic generative models that add noise to data and learn to reverse the process for sample generation, widely used in generative AI tasks." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

### NEW QUESTION # 34

When fine-tuning an LLM for a specific application, why is it essential to perform exploratory data analysis (EDA) on the new training dataset?

- A. To uncover patterns and anomalies in the dataset
- B. To select the appropriate learning rate for the model
- C. To determine the optimum number of layers in the neural network
- D. To assess the computing resources required for fine-tuning

**Answer: A**

Explanation:

Exploratory Data Analysis (EDA) is a critical step in fine-tuning large language models (LLMs) to understand the characteristics of the new training dataset. NVIDIA's NeMo documentation on data preprocessing for NLP tasks emphasizes that EDA helps uncover patterns (e.g., class distributions, word frequencies) and anomalies (e.g., outliers, missing values) that can affect model performance. For example, EDA might reveal imbalanced classes or noisy data, prompting preprocessing steps like data cleaning or augmentation. Option B is incorrect, as learning rate selection is part of model training, not EDA. Option C is unrelated, as EDA does not assess computational resources. Option D is false, as the number of layers is a model architecture decision, not derived from EDA.

References:

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

### NEW QUESTION # 35

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

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

**Answer: A**

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 # 36

What is the purpose of the NVIDIA NeMo Toolkit?

- A. NeMo focuses on the morphology of a language by studying its words, and how they are formed.
- B. NeMo helps researchers develop state-of-the-art models for computer vision based on convolutions.
- C. NeMo helps researchers to develop models that trade-off size with minimum loss impact.
- **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 # 37

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