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

### NEW QUESTION # 32

What do we usually refer to as generative AI?

- A. A branch of artificial intelligence that focuses on creating models that can generate new and original data.
- B. A branch of artificial intelligence that focuses on analyzing and interpreting existing data.
- C. A branch of artificial intelligence that focuses on auto generation of models for classification.
- D. A branch of artificial intelligence that focuses on improving the efficiency of existing models.

**Answer: A**

Explanation:

Generative AI, as covered in NVIDIA's Generative AI and LLMs course, is a branch of artificial intelligence focused on creating models that can generate new and original data, such as text, images, or audio, that resembles the training data. In the context of LLMs, generative AI involves models like GPT that produce coherent text for tasks like text completion, dialogue, or creative writing by learning patterns from large datasets. These models use techniques like autoregressive generation to create novel outputs. Option B is incorrect, as generative AI is not limited to generating classification models but focuses on producing new data. Option C is wrong, as improving model efficiency is a concern of optimization techniques, not generative AI. Option D is inaccurate, as analyzing and interpreting data falls under discriminative AI, not generative AI. The course emphasizes: "Generative AI involves building models that create new content, such as text or images, by learning the underlying distribution of the training data."

References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

**NEW QUESTION # 33**

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

- A. BLEU scores determine the fluency of text generation, while ROUGE scores rate the uniqueness of generated text.
- B. BLEU scores measure model efficiency, whereas ROUGE scores assess computational complexity.
- C. BLEU scores analyze syntactic structures, while ROUGE scores evaluate semantic accuracy.
- D. BLEU scores evaluate the 'precision' of translations, while ROUGE scores focus on the 'recall' of summarized text.

**Answer: D**

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 # 34**

In Exploratory Data Analysis (EDA) for Natural Language Understanding (NLU), which method is essential for understanding the contextual relationship between words in textual data?

- A. Computing the frequency of individual words to identify the most common terms in a text.
- B. Applying sentiment analysis to gauge the overall sentiment expressed in a text.
- C. Generating word clouds to visually represent word frequency and highlight key terms.
- D. Creating n-gram models to analyze patterns of word sequences like bigrams and trigrams.

**Answer: D**

Explanation:

In Exploratory Data Analysis (EDA) for Natural Language Understanding (NLU), creating n-gram models is essential for understanding the contextual relationships between words, as highlighted in NVIDIA's Generative AI and LLMs course. N-grams (e.g., bigrams, trigrams) capture sequences of words, revealing patterns and dependencies in text, such as common phrases or

syntactic structures, which are critical for NLU tasks like text generation or classification. Unlike single-word frequency analysis, n-grams provide insight into how words relate to each other in context. Option A is incorrect, as computing word frequencies focuses on individual terms, missing contextual relationships. Option B is wrong, as sentiment analysis targets overall text sentiment, not word relationships. Option C is inaccurate, as word clouds visualize frequency, not contextual patterns. The course notes: "N-gram models are used in EDA for NLU to analyze word sequence patterns, such as bigrams and trigrams, to understand contextual relationships in textual data." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

### NEW QUESTION # 35

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

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

#### Answer: C

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 # 36

In the context of evaluating a fine-tuned LLM for a text classification task, which experimental design technique ensures robust performance estimation when dealing with imbalanced datasets?

- A. Single hold-out validation with a fixed test set.
- B. Bootstrapping with random sampling.
- **C. Stratified k-fold cross-validation.**
- D. Grid search for hyperparameter tuning.

#### Answer: C

Explanation:

Stratified k-fold cross-validation is a robust experimental design technique for evaluating machine learning models, especially on imbalanced datasets. It divides the dataset into k folds while preserving the class distribution in each fold, ensuring that the model is evaluated on representative samples of all classes.

NVIDIA's NeMo documentation on model evaluation recommends stratified cross-validation for tasks like text classification to obtain reliable performance estimates, particularly when classes are unevenly distributed (e.g., in sentiment analysis with few negative samples). Option A (single hold-out) is less robust, as it may not capture class imbalance. Option C (bootstrapping) introduces variability and is less suitable for imbalanced data. Option D (grid search) is for hyperparameter tuning, not performance estimation.

References:

NVIDIA NeMo Documentation: [https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp/model\\_finetuning.html](https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp/model_finetuning.html)

### NEW QUESTION # 37

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