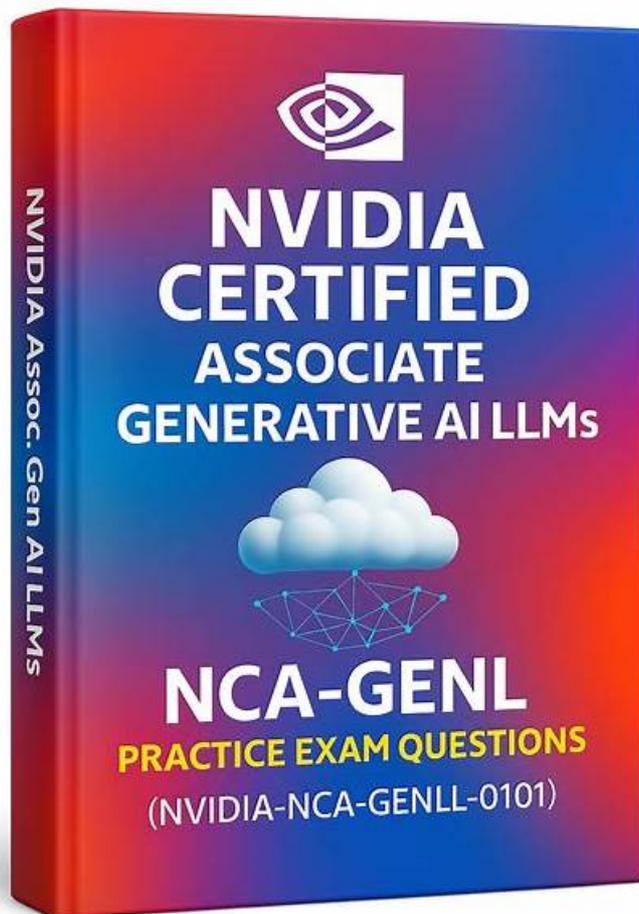


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It is universally accepted that in this competitive society in order to get a good job we have no choice but to improve our own capacity and explore our potential constantly, and try our best to get the related NCA-GENL certification is the best way to show our professional ability, however, the NCA-GENL Exam is hard nut to crack but our NCA-GENL preparation questions are closely related to the exam, it is designed for you to systematize all of the key points needed for the NCA-GENL exam.

NVIDIA NCA-GENL Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Software Development: This section of the exam measures the skills of Machine Learning Developers and covers writing efficient, modular, and scalable code for AI applications. It includes software engineering principles, version control, testing, and documentation practices relevant to LLM-based development.

Topic 2	<ul style="list-style-type: none"> • LLM Integration and Deployment: This section of the exam measures skills of AI Platform Engineers and covers connecting LLMs with applications or services through APIs, and deploying them securely and efficiently at scale. It also includes considerations for latency, cost, monitoring, and updates in production environments.
Topic 3	<ul style="list-style-type: none"> • Fundamentals of Machine Learning and Neural Networks: This section of the exam measures the skills of AI Researchers and covers the foundational principles behind machine learning and neural networks, focusing on how these concepts underpin the development of large language models (LLMs). It ensures the learner understands the basic structure and learning mechanisms involved in training generative AI systems.
Topic 4	<ul style="list-style-type: none"> • Data Preprocessing and Feature Engineering: This section of the exam measures the skills of Data Engineers and covers preparing raw data into usable formats for model training or fine-tuning. It includes cleaning, normalizing, tokenizing, and feature extraction methods essential to building robust LLM pipelines.
Topic 5	<ul style="list-style-type: none"> • Experiment Design

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NVIDIA Generative AI LLMs Sample Questions (Q30-Q35):

NEW QUESTION # 30

Your company has upgraded from a legacy LLM model to a new model that allows for larger sequences and higher token limits. What is the most likely result of upgrading to the new model?

- A. The newer model allows for larger context, so the outputs will improve without increasing inference time overhead.
- B. The number of tokens is fixed for all existing language models, so there is no benefit to upgrading to higher token limits.
- C. The newer model allows the same context lengths, but the larger token limit will result in more comprehensive and longer outputs with more detail.
- **D. The newer model allows larger context, so outputs will improve, but you will likely incur longer inference times.**

Answer: D

Explanation:

Upgrading to a new LLM with larger sequence lengths and higher token limits, as discussed in NVIDIA's Generative AI and LLMs course, typically allows the model to process larger contexts, leading to improved output quality due to better understanding of extended dependencies in text. However, handling larger sequences increases computational requirements, often resulting in longer inference times, especially on the same hardware. This trade-off is a key consideration in LLM deployment. Option A is incorrect, as token limits vary across models, and higher limits offer benefits. Option B is wrong, as larger context processing typically increases inference time. Option C is inaccurate, as higher token limits primarily enable larger context, not just longer outputs. The course notes: "Larger sequence lengths in LLMs allow for improved output quality by capturing more context, but this often comes at the cost of increased inference times due to higher computational demands." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 31

Which metric is commonly used to evaluate machine-translation models?

- A. F1 Score
- **B. BLEU score**

- C. ROUGE score
- D. Perplexity

Answer: B

Explanation:

The BLEU (Bilingual Evaluation Understudy) score is the most commonly used metric for evaluating machine-translation models. It measures the precision of n-gram overlaps between the generated translation and reference translations, providing a quantitative measure of translation quality. NVIDIA's NeMo documentation on NLP tasks, particularly machine translation, highlights BLEU as the standard metric for assessing translation performance due to its focus on precision and fluency. Option A (F1 Score) is used for classification tasks, not translation. Option C (ROUGE) is primarily for summarization, focusing on recall.

Option D (Perplexity) measures language model quality but is less specific to translation evaluation.

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."

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

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

Answer: B

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:

NEW QUESTION # 34

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

Answer: A

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 # 35

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