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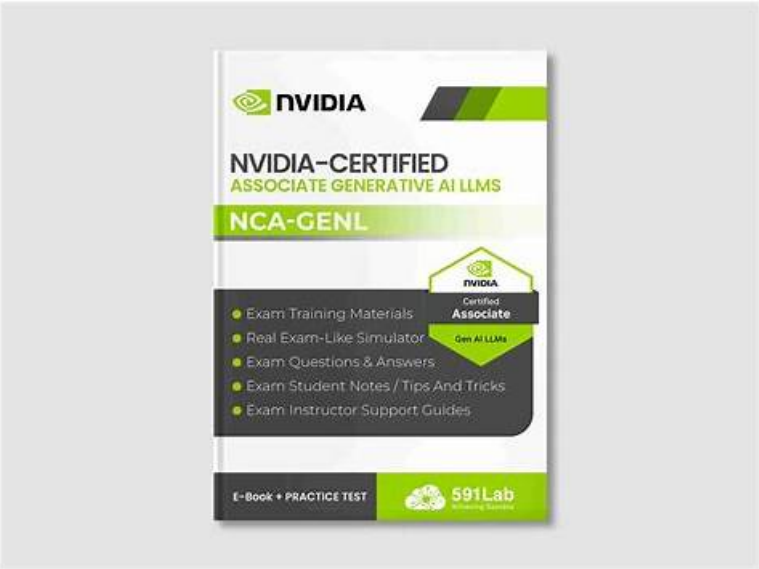

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NVIDIA Generative AI LLMs Sample Questions (Q94-Q99):

NEW QUESTION # 94
In the transformer architecture, what is the purpose of positional encoding?

- A. To encode the semantic meaning of each token in the input sequence.
- B. To remove redundant information from the input sequence.
- C. To add information about the order of each token in the input sequence.
- D. To encode the importance of each token in the input sequence.

Answer: C

Explanation:
Positional encoding is a vital component of the Transformer architecture, as emphasized in NVIDIA's Generative AI and LLMs course. Transformers lack the inherent sequential processing of recurrent neural networks, so they rely on positional encoding to

incorporate information about the order of tokens in the input sequence. This is typically achieved by adding fixed or learned vectors (e.g., sine and cosine functions) to the token embeddings, where each position in the sequence has a unique encoding. This allows the model to distinguish the relative or absolute positions of tokens, enabling it to understand word order in tasks like translation or text generation. For example, in the sentence "The cat sleeps," positional encoding ensures the model knows "cat" is the second token and "sleeps" is the third. Option A is incorrect, as positional encoding does not remove information but adds positional context. Option B is wrong because semantic meaning is captured by token embeddings, not positional encoding. Option D is also inaccurate, as the importance of tokens is determined by the attention mechanism, not positional encoding. The course notes: "Positional encodings are used in Transformers to provide information about the order of tokens in the input sequence, enabling the model to process sequences effectively." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 95
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. Reducing the input sequence length to minimize token processing.
- B. Enabling dynamic batching to process multiple requests simultaneously.
- C. Increasing the model's parameter count to improve response quality.
- D. Switching to a CPU-based inference engine for better scalability.

Answer: B

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 # 96
In the Transformer architecture, which of the following statements about the Q (query), K (key), and V (value) matrices is correct?

- A. Q, K, and V are randomly initialized weight matrices used for positional encoding.
- B. K is responsible for computing the attention scores between the query and key vectors.
- C. Q represents the query vector used to retrieve relevant information from the input sequence.
- D. V is used to calculate the positional embeddings for each token in the input sequence.

Answer: C

Explanation:
In the transformer architecture, the Q (query), K (key), and V (value) matrices are used in the self-attention mechanism to compute relationships between tokens in a sequence. According to "Attention is All You Need" (Vaswani et al., 2017) and NVIDIA's NeMo documentation, the query vector (Q) represents the token seeking relevant information, the key vector (K) is used to compute compatibility with other tokens, and the value vector (V) provides the information to be retrieved. The attention score is calculated as a scaled dot- product of Q and K, and the output is a weighted sum of V. Option C is correct, as Q retrieves relevant information. Option A is incorrect, as Q, K, and V are not used for positional encoding. Option B is wrong, as attention scores are computed using both Q and K, not K alone. Option D is false, as positional embeddings are separate from V.
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 # 97

In the development of Trustworthy AI, what is the significance of 'Certification' as a principle?

- A. It requires AI systems to be developed with an ethical consideration for societal impacts.
- B. It involves verifying that AI models are fit for their intended purpose according to regional or industry- specific standards.
- C. It mandates that AI models comply with relevant laws and regulations specific to their deployment region and industry.
- D. It ensures that AI systems are transparent in their decision-making processes.

Answer: B

Explanation:
In the development of Trustworthy AI, 'Certification' as a principle involves verifying that AI models are fit for their intended purpose according to regional or industry-specific standards, as discussed in NVIDIA's Generative AI and LLMs course. Certification ensures that models meet performance, safety, and ethical benchmarks, providing assurance to stakeholders about their reliability and appropriateness. Option A is incorrect, as transparency is a separate principle, not certification. Option B is wrong, as ethical considerations are broader and not specific to certification. Option D is inaccurate, as compliance with laws is related but distinct from certification's focus on fitness for purpose. The course states: "Certification in Trustworthy AI verifies that models meet regional or industry-specific standards, ensuring they are fit for their intended purpose and reliable." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 98
Which library is used to accelerate data preparation operations on the GPU?

- A. cuML
- B. XGBoost
- C. cuDF
- D. cuGraph

Answer: C

Explanation:
cuDF is a GPU-accelerated data manipulation library within the RAPIDS ecosystem, designed to speed up data preparation operations such as filtering, joining, and aggregating large datasets. As highlighted in NVIDIA's Generative AI and LLMs course, cuDF provides pandas-like functionality for data preprocessing but leverages GPU parallelism to achieve significant performance improvements, making it ideal for data science workflows involving large-scale data preparation. Option A, cuML, is incorrect, as it focuses on machine learning algorithms, not data preparation. Option B, XGBoost, is a gradient boosting framework, not a data preparation library. Option D, cuGraph, is used for graph analytics, not general data preparation. The course notes: "RAPIDS cuDF accelerates data preparation operations by enabling GPU-based processing, offering pandas-like functionality with significant speedups for tasks like data filtering and transformation." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 99
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