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NVIDIA Generative AI LLMs Sample Questions (Q75-Q80):

NEW QUESTION # 75
Why is layer normalization important in transformer architectures?

- A. To encode positional information within the sequence.
- B. To compress the model size for efficient storage.
- C. To stabilize the learning process by adjusting the inputs across the features.
- D. To enhance the model's ability to generalize to new data.

Answer: C

Explanation:
Layer normalization is a critical technique in Transformer architectures, as highlighted in NVIDIA's Generative AI and LLMs course. It stabilizes the learning process by normalizing the inputs to each layer across the features, ensuring that the mean and variance of the activations remain consistent. This is achieved by computing the mean and standard deviation of the inputs to a layer and scaling them to a standard range, which helps mitigate issues like vanishing or exploding gradients during training. This stabilization improves training efficiency and model performance, particularly in deep networks like Transformers. Option A is incorrect, as layer normalization primarily aids training stability, not generalization to new data, which is influenced by other factors like regularization. Option B is wrong, as layer normalization does not compress model size but adjusts activations. Option D is inaccurate, as positional information is handled by positional encoding, not layer normalization. The course notes: "Layer normalization stabilizes the training of Transformer models by normalizing layer inputs, ensuring consistent activation distributions and improving convergence." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 76
Which of the following is a feature of the NVIDIA Triton Inference Server?

- A. Dynamic batching
- B. Model pruning
- C. Model quantization
- D. Gradient clipping

Answer: A

Explanation:
The NVIDIA Triton Inference Server is designed to optimize and deploy machine learning models for inference, and one of its key features is dynamic batching, as noted in NVIDIA's Generative AI and LLMs course. Dynamic batching automatically groups inference requests into batches to maximize GPU utilization, reducing latency and improving throughput for real-time applications. Option A, model quantization, is incorrect, as it is typically handled by frameworks like TensorRT, not Triton. Option C, gradient clipping, is a training technique, not an inference feature. Option D, model pruning, is a model optimization method, not a Triton feature. The course states: "NVIDIA Triton Inference Server supports dynamic batching, which optimizes inference by grouping requests to maximize GPU efficiency and throughput." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 77
Which of the following tasks is a primary application of XGBoost and cuML?

- A. Inspecting, cleansing, and transforming data
- B. Performing GPU-accelerated machine learning tasks
- C. Training deep learning models
- D. Data visualization and analysis

Answer: B

Explanation:
Both XGBoost (with its GPU-enabled training) and cuML offer GPU-accelerated implementations of machine learning algorithms, such as gradient boosting, clustering, and dimensionality reduction, enabling much faster model training and inference.

NEW QUESTION # 78
Which of the following optimizations are provided by TensorRT? (Choose two.)

- A. Layer Fusion
- B. Data augmentation
- C. Residual connections
- D. Variable learning rate
- E. Multi-Stream Execution

Answer: A,E

Explanation:
NVIDIA TensorRT provides optimizations to enhance the performance of deep learning models during inference, as detailed in NVIDIA's Generative AI and LLMs course. Two key optimizations are multi-stream execution and layer fusion. Multi-stream execution allows parallel processing of multiple input streams on the GPU, improving throughput for concurrent inference tasks. Layer fusion combines multiple layers of a neural network (e.g., convolution and activation) into a single operation, reducing memory access and computation time. Option A, data augmentation, is incorrect, as it is a preprocessing technique, not a TensorRT optimization. Option B, variable learning rate, is a training technique, not relevant to inference. Option E, residual connections, is a model architecture feature, not a TensorRT optimization. The course states:
"TensorRT optimizes inference through techniques like layer fusion, which combines operations to reduce overhead, and multi-stream execution, which enables parallel processing for higher throughput." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 79

What is the purpose of the NVIDIA NGC catalog?

- A. To provide a platform for developers to collaborate and share software development projects.
- B. To provide a marketplace for buying and selling software development tools and resources.
- C. To provide a curated collection of GPU-optimized AI and data science software.
- D. To provide a platform for testing and debugging software applications.

Answer: C

Explanation:
The NVIDIA NGC catalog is a curated repository of GPU-optimized software for AI, machine learning, and data science, as highlighted in NVIDIA's Generative AI and LLMs course. It provides developers with pre- built containers, pre-trained models, and tools optimized for NVIDIA GPUs, enabling faster development and deployment of AI solutions, including LLMs. These resources are designed to streamline workflows and ensure compatibility with NVIDIA hardware. Option A is incorrect, as NGC is not primarily for testing or debugging but for providing optimized software. Option B is wrong, as it is not a collaboration platform like GitHub. Option C is inaccurate, as NGC is not a marketplace for buying and selling but a free resource hub.
The course notes: "The NVIDIA NGC catalog offers a curated collection of GPU-optimized AI and data science software, including containers and models, to accelerate development and deployment." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA NeMo Framework User Guide.

NEW QUESTION # 80
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