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NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q33-Q38):

NEW QUESTION # 33
An AI research team is working on a large-scale natural language processing (NLP) model that requires both data preprocessing and training across multiple GPUs. They need to ensure that the GPUs are used efficiently to minimize training time. Which combination of NVIDIA technologies should they use?

- A. NVIDIA cuDNN and NVIDIA NGC Catalog
- B. NVIDIA DeepStream SDK and NVIDIA CUDA Toolkit
- C. NVIDIA TensorRT and NVIDIA DGX OS

- D. NVIDIA DALI (Data Loading Library) and NVIDIA NCCL

Answer: D

Explanation:
NVIDIA DALI (Data Loading Library) and NVIDIA NCCL (Collective Communications Library) are the best combination for efficient GPU use in NLP model training. DALI accelerates data preprocessing (e.g., tokenization) on GPUs, reducing CPU bottlenecks, while NCCL optimizes inter-GPU communication for distributed training, minimizing latency and maximizing utilization. Option A (TensorRT) focuses on inference, not training. Option B (DeepStream) targets video analytics. Option D (cuDNN, NGC) supports neural ops and model access but lacks preprocessing/communication focus. NVIDIA's NLP workflows recommend DALI and NCCL for efficiency.

NEW QUESTION # 34
Which aspect of computing uses large amounts of data to train complex neural networks?

- A. Inferencing
- B. Machine learning
- C. Deep learning

Answer: C

Explanation:
Deep learning, a subset of machine learning, relies on large datasets to train multi-layered neural networks, enabling them to learn hierarchical feature representations and complex patterns autonomously. While machine learning encompasses broader techniques (some requiring less data), deep learning's dependence on vast data volumes distinguishes it. Inferencing, the application of trained models, typically uses smaller, real- time inputs rather than extensive training data.
(Reference: NVIDIA AI Infrastructure and Operations Study Guide, Section on Deep Learning Fundamentals)

NEW QUESTION # 35
For which workloads is NVIDIA Merlin typically used?

- A. Recommender systems
- B. Natural language processing
- C. Data analytics

Answer: A

Explanation:
NVIDIA Merlin is a specialized, end-to-end framework engineered for building and deploying large-scale recommender systems. It streamlines the entire pipeline, including data preprocessing (e.g., feature engineering, data transformation), model training (using GPU-accelerated frameworks), and inference optimizations tailored for recommendation tasks. Unlike general-purpose tools for natural language processing or data analytics, Merlin is optimized to handle the unique challenges of recommendation workloads, such as processing massive user-item interaction datasets and delivering personalized results efficiently.
(Reference: NVIDIA Merlin Documentation, Overview Section)

NEW QUESTION # 36
You are working with a large healthcare dataset containing millions of patient records. Your goal is to identify patterns and extract actionable insights that could improve patient outcomes. The dataset is highly dimensional, with numerous variables, and requires significant processing power to analyze effectively.
Which two techniques are most suitable for extracting meaningful insights from this large, complex dataset?
(Select two)

- A. Batch Normalization
- B. SMOTE (Synthetic Minority Over-sampling Technique)
- C. Dimensionality Reduction (e.g., PCA)
- D. K-means Clustering
- E. Data Augmentation

Answer: C,D

Explanation:
A large, high-dimensional healthcare dataset requires techniques to uncover patterns and reduce complexity.
K-means Clustering (Option D) groups similar patient records (e.g., by symptoms or outcomes), identifying actionable patterns using NVIDIA RAPIDS cuML for GPU acceleration. Dimensionality Reduction (Option E), like PCA, reduces variables to key components, simplifying analysis while preserving insights, also accelerated by RAPIDS on NVIDIA GPUs (e.g., DGX systems).
SMOTE (Option A) addresses class imbalance, not general pattern extraction. Data Augmentation (Option B) enhances training data, not insight extraction. Batch Normalization (Option C) is a training technique, not an analysis tool. NVIDIA's data science tools prioritize clustering and dimensionality reduction for such tasks.

NEW QUESTION # 37
A healthcare provider is deploying an AI-driven diagnostic system that analyzes medical images to detect diseases. The system must operate with high accuracy and speed to support doctors in real-time. During deployment, it was observed that the system's performance degrades when processing high-resolution images in real-time, leading to delays and occasional misdiagnoses. What should be the primary focus to improve the system's real-time processing capabilities?

- A. Optimize the AI model's architecture for better parallel processing on GPUs
- B. Use a CPU-based system for image processing to reduce the load on GPUs
- C. Increase the system's memory to store more images concurrently
- D. Lower the resolution of input images to reduce the processing load

Answer: A

Explanation:
Real-time medical image analysis demands high accuracy and speed, which degrade with high-resolution images due to computational complexity. Optimizing the AI model's architecture for better parallel processing on GPUs-using techniques like pruning, quantization, or TensorRT optimization-reduces latency while maintaining accuracy. NVIDIA GPUs (e.g., A100) and TensorRT are designed to accelerate such workloads, making this the primary focus for improvement in DGX or healthcare-focused deployments.
More memory (Option A) helps with batching but doesn't address processing speed. Switching to CPUs (Option C) slows performance, as they lack GPU parallelism. Lowering resolution (Option D) risks accuracy loss, undermining diagnostics. Model optimization aligns with NVIDIA's real-time AI strategy.

NEW QUESTION # 38
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