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NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q40-Q45):

NEW QUESTION # 40

You are working under the supervision of a senior AI engineer on a project involving large-scale data processing using NVIDIA GPUs. The task involves analyzing a large dataset of images to train a deep learning model. You need to ensure that the data pipeline is optimized for performance while minimizing resource usage. Which of the following techniques would best optimize the data pipeline for training a deep learning model on NVIDIA GPUs?

- A. Load the entire dataset into GPU memory
- B. Use data augmentation on the CPU before sending data to the GPU
- C. Apply data sharding across multiple CPUs
- D. Implement mixed precision training

Answer: D

Explanation:

Implementing mixed precision training is the best technique to optimize the data pipeline for training a deep learning model on NVIDIA GPUs while minimizing resource usage. Mixed precision training uses lower-precision data types (e.g., FP16 instead of FP32), reducing memory consumption and speeding up computation without sacrificing accuracy. This allows larger batches to fit in GPU memory, improves throughput, and leverages Tensor Cores on NVIDIA GPUs (e.g., A100, H100), as detailed in NVIDIA's "Mixed Precision Training Guide." It directly enhances pipeline efficiency by optimizing GPU resource utilization. Loading the entire dataset into GPU memory (A) is impractical for large datasets and wastes resources. Data sharding across CPUs (B) offloads work from GPUs, slowing the pipeline. Data augmentation on the CPU (C) creates a bottleneck, as GPUs can handle augmentation faster. NVIDIA's documentation prioritizes mixed precision for performance and efficiency.

NEW QUESTION # 41

What is an advantage of InfiniBand over Ethernet?

- A. InfiniBand always provides higher bandwidth than Ethernet.
- B. InfiniBand supports RDMA while Ethernet does not.
- C. **InfiniBand offers lower latency than Ethernet.**

Answer: C

Explanation:

InfiniBand's advantage over Ethernet lies in its lower latency, achieved through a streamlined protocol and hardware offloads, delivering microsecond-scale communication critical for AI clusters. While InfiniBand often offers high bandwidth, Ethernet can match or exceed it (e.g., 400 GbE), and Ethernet supports RDMA via RoCE, making latency the standout differentiator. (Reference: NVIDIA Networking Documentation, Section on InfiniBand vs. Ethernet)

NEW QUESTION # 42

In an AI cluster, what is the importance of using Slurm?

- A. **Slurm helps with managing job scheduling and resource allocation in the cluster.**
- B. Slurm is responsible for AI model training and inference in an AI cluster.
- C. Slurm is used for interconnecting nodes in an AI cluster.
- D. Slurm is used for data storage and retrieval in an AI cluster.

Answer: A

Explanation:

Slurm (Simple Linux Utility for Resource Management) is a workload manager critical for AI clusters, handling job scheduling and resource allocation. It ensures tasks are assigned to available GPUs/CPU efficiently, supporting scalable training and inference. It doesn't manage storage, perform training, or interconnect nodes-those are separate functions. (Reference: NVIDIA AI Infrastructure and Operations Study Guide, Section on Slurm in AI Clusters)

NEW QUESTION # 43

You are assisting a senior data scientist in a project aimed at improving the efficiency of a deep learning model. The team is analyzing how different data preprocessing techniques impact the model's accuracy and training time. Your task is to identify which preprocessing techniques have the most significant effect on these metrics. Which method would be most effective in identifying the preprocessing techniques that significantly affect model accuracy and training time?

- A. Create a pie chart showing the distribution of preprocessing techniques used.
- B. Use a line chart to plot training time for different preprocessing techniques.
- C. **Perform a multivariate regression analysis with preprocessing techniques as independent variables and accuracy/training time as dependent variables.**
- D. Conduct a t-test between different preprocessing techniques.

Answer: C

Explanation:

Performing a multivariate regression analysis with preprocessing techniques as independent variables and accuracy/training time as dependent variables is the most effective method. This statistical approach quantifies the impact of each technique (e.g.,

normalization, augmentation) on both metrics, identifying significant contributors while accounting for interactions. NVIDIA's Deep Learning Performance Guide suggests such analyses for optimizing training pipelines on GPUs. Option A (line chart) visualizes trends but lacks statistical rigor. Option B (t-test) compares pairs, not multiple factors. Option D (pie chart) shows usage distribution, not impact. Regression aligns with NVIDIA's data-driven optimization strategies.

NEW QUESTION # 44

Which solution should be recommended to support real-time collaboration and rendering among a team?

- A. A DGX SuperPOD.
- **B. An NVIDIA Certified Server with RTX-based GPUs.**
- C. A cluster of servers with NVIDIA T4 GPUs in each server.

Answer: B

Explanation:

An NVIDIA Certified Server with RTX GPUs is optimized for real-time collaboration and rendering, supporting NVIDIA Virtual Workstation (vWS) software. This setup enables low-latency, multi-user graphics workloads, ideal for team-based design or visualization. T4 GPUs focus on inference efficiency, and DGX SuperPOD targets large-scale AI training, not collaborative rendering.

(Reference: NVIDIA AI Infrastructure and Operations Study Guide, Section on GPU Selection for Collaboration)

NEW QUESTION # 45

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