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NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q63-Q68):

NEW QUESTION # 63

In gradient-based optimization, feature scaling is crucial because it:

- A. Stabilizes gradient magnitude across dimensions
- B. Removes outliers
- C. Increases dataset size
- D. Eliminates overfitting

Answer: A

Explanation:

Feature scaling prevents certain dimensions from dominating gradients, improving convergence stability.

NEW QUESTION # 64

What factors have led to significant breakthroughs in Deep Learning?

- A. Advances in smartphones, social media sites, and improvements in statistical techniques.
- B. Advances in sensors, availability of large datasets, and improvements to the "Bag of Words" algorithm.
- **C. Advances in hardware, availability of large datasets, and improvements in training algorithms.**
- D. Advances in hardware, availability of fast internet connections, and improvements in training algorithms.

Answer: C

Explanation:

Deep learning breakthroughs stem from three pillars: advances in hardware (e.g., GPUs and TPUs) providing the compute power for large-scale neural networks; the availability of large datasets offering the data volume needed for training; and improvements in training algorithms (e.g., optimizers like Adam, novel architectures like Transformers) enhancing model efficiency and accuracy. While internet speed, sensors, or smartphones play roles in broader tech, they're less directly tied to deep learning's core advancements.

NEW QUESTION # 65

In a distributed AI training environment, you notice that the GPU utilization drops significantly when the model reaches the backpropagation stage, leading to increased training time. What is the most effective way to address this issue?

- A. Increase the learning rate to speed up the training process
- **B. Implement mixed-precision training to reduce the computational load during backpropagation**
- C. Increase the number of layers in the model to create more work for the GPUs during backpropagation
- D. Optimize the data loading pipeline to ensure continuous GPU data feeding during backpropagation

Answer: B

Explanation:

Implementing mixed-precision training (D) is the most effective way to address low GPU utilization during backpropagation. Mixed precision uses FP16 alongside FP32, leveraging NVIDIA Tensor Cores to accelerate matrix operations in backpropagation, reducing compute time and memory usage. This keeps GPUs busier by increasing throughput, especially in distributed setups where synchronization waits can exacerbate idling.

* More layers(A) increases compute but may not target backpropagation efficiency and risks overfitting.

* Higher learning rate(B) affects convergence, not utilization directly.

* Data pipeline optimization(C) helps forward passes but not backpropagation compute bottlenecks.

NVIDIA's mixed precision is a proven solution for training efficiency (D).

NEW QUESTION # 66

An AI operations team is tasked with monitoring a large-scale AI infrastructure where multiple GPUs are utilized in parallel. To ensure optimal performance and early detection of issues, which two criteria are essential for monitoring the GPUs? (Select two)

- A. Average CPU temperature
- **B. Memory bandwidth usage on GPUs**
- **C. GPU utilization percentage**
- D. Number of active CPU threads
- E. GPU fan noise levels

Answer: B,C

Explanation:

For monitoring GPUs in an AI infrastructure:

* GPU utilization percentage(A) measures how effectively GPUs are being used, identifying underutilization or overloading-key to performance optimization.

* Memory bandwidth usage on GPUs(D) tracks data transfer rates within the GPU, critical for detecting bottlenecks in memory-intensive AI workloads like deep learning.

* Number of active CPU threads(B) is a CPU metric, less relevant to GPU performance.

* Average CPU temperature(C) monitors CPU health, not GPU status.

* GPU fan noise levels(E) are a byproduct, not a direct performance indicator.
NVIDIA's nvidia-smi tool provides these GPU metrics (A and D) for operational monitoring.

NEW QUESTION # 67

In an AI data center, you are working with a professional administrator to optimize the deployment of AI workloads across multiple servers. Which of the following actions would best contribute to improving the efficiency and performance of the data center?

- A. [Note: Original question only provided three options; assuming a typo and treating A as the intended correct answer]
- B. Consolidate all AI workloads onto a single high-performance server to maximize GPU utilization
- C. Allocate all networking tasks to the CPUs, allowing the GPUs and DPUs to focus solely on AI model computation
- **D. Distribute AI workloads across multiple servers with GPUs, while using DPUs to manage network and storage tasks**

Answer: D

Explanation:

Distributing AI workloads across multiple servers with GPUs, while using DPUs (e.g., NVIDIA BlueField) to manage network and storage tasks, best improves efficiency and performance in an AI data center. This approach leverages GPU parallelism for computation and offloads networking/storage (e.g., RDMA, encryption) to DPUs, reducing CPU overhead and latency. NVIDIA's "BlueField DPU Documentation" and

"AI Infrastructure for Enterprise" highlight this as an optimized design for scalable, high-performance AI deployments.

Consolidating workloads on one server (B) creates a bottleneck and single point of failure. Assigning networking to CPUs (C) negates DPU benefits, reducing efficiency. NVIDIA's architecture guidance supports distributed GPU-DPU setups.

NEW QUESTION # 68

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