NVIDIA NCA-AIIO日本語版対応参考書、NCA-AIIO試験参考書

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>> NVIDIA NCA-AIIO日本語版対応参考書 <<

NCA-AIIO試験参考書、NCA-AIIO受験料

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NVIDIA NCA-AIIO 認定試験の出題範囲：

トピック	出題範囲
トピック 1	• Essential AI knowledge: Exam Weight: This section of the exam measures the skills of IT professionals and covers foundational AI concepts. It includes understanding the NVIDIA software stack, differentiating between AI, machine learning, and deep learning, and comparing training versus inference. Key topics also involve explaining the factors behind AI's rapid adoption, identifying major AI use cases across industries, and describing the purpose of various NVIDIA solutions. The section requires knowledge of the software components in the AI development lifecycle and an ability to contrast GPU and CPU architectures.

トピック 2	• AI Infrastructure: This section of the exam measures the skills of IT professionals and focuses on the physical and architectural components needed for AI. It involves understanding the process of extracting insights from large datasets through data mining and visualization. Candidates must be able to compare models using statistical metrics and identify data trends. The infrastructure knowledge extends to data center platforms, energy-efficient computing, networking for AI, and the role of technologies like NVIDIA DPUs in transforming data centers.
トピック 3	• AI Operations: This section of the exam measures the skills of data center operators and encompasses the management of AI environments. It requires describing essentials for AI data center management, monitoring, and cluster orchestration. Key topics include articulating measures for monitoring GPUs, understanding job scheduling, and identifying considerations for virtualizing accelerated infrastructure. The operational knowledge also covers tools for orchestration and the principles of MLOps.

NVIDIA-Certified Associate AI Infrastructure and Operations 認定 NCA-AIIO 試験問題 (Q58-Q63):

質問 # 58
In training and inference architecture requirements, what is the main difference between training and inference?

- A. Training requires real-time processing, while inference requires large amounts of data.
- B. Training and inference both require large amounts of data.
- C. Training requires large amounts of data, while inference requires real-time processing.
- D. Training and inference both require real-time processing.

正解：C

解説：
The primary distinction between training and inference lies in their operational demands. Training necessitates large amounts of data to iteratively optimize model parameters, often involving extensive datasets processed in batches across multiple GPUs to achieve convergence. Inference, however, is designed for real- time or low-latency processing, where trained models are deployed to make predictions on new inputs with minimal delay, typically requiring less data volume but high responsiveness. This fundamental difference shapes their respective architectural designs and resource allocations.
(Reference: NVIDIA AI Infrastructure and Operations Study Guide, Section on Training vs. Inference Requirements)

質問 # 59
Which of the following software components is most responsible for optimizing deep learning operations on NVIDIA GPUs by providing highly tuned implementations of standard routines?

- A. CUDA
- B. cuDNN
- C. TensorFlow
- D. NCCL

正解：B

解説：
NVIDIA cuDNN (CUDA Deep Neural Network library) is specifically designed to optimize deep learning operations on NVIDIA GPUs by providing highly tuned implementations of standard routines, such as convolutions, pooling, and activation functions. It underpins frameworks like TensorFlow and PyTorch, accelerating training and inference in NVIDIA's ecosystem (e.g., DGX, Jetson). cuDNN's optimizations leverage GPU parallelism, making it the core component for deep learning performance.
CUDA (Option A) is a general-purpose GPU programming platform, not specialized for deep learning.
TensorFlow (Option B) is a framework that uses cuDNN, not the optimizer itself. NCCL (Option D) focuses on multi-GPU communication, not individual operations. cuDNN is NVIDIA's flagship deep learning optimization tool.

質問 # 60
A financial institution is implementing a real-time fraud detection system using deep learning models. The system needs to process

large volumes of transactions with very low latency to identify fraudulent activities immediately. During testing, the team observes that the system occasionally misses fraudulent transactions under heavy load, and latency spikes occur. Which strategy would best improve the system's performance and reliability?

- A. Increase the dataset size by including more historical transaction data.
- B. Reduce the complexity of the model to decrease the inference time.
- C. Implement model parallelism to split the model across multiple GPUs.
- D. Deploy the model on a CPU cluster instead of GPUs to handle the processing.

正解：C

解説：
Implementing model parallelism to split the deep learning model across multiple NVIDIA GPUs is the best strategy to improve performance and reliability for a real-time fraud detection system under heavy load.
Model parallelism divides the computational workload of a large model across GPUs, reducing latency and increasing throughput by leveraging parallel processing capabilities, a strength of NVIDIA's architecture (e.
g., TensorRT, NCCL). This addresses latency spikes and missed detections by ensuring the system scales with demand. Option A (CPU cluster) sacrifices GPU acceleration, increasing latency. Option B (reducing complexity) may lower accuracy, undermining fraud detection. Option C (larger dataset) improves training but not inference performance. NVIDIA's fraud detection use cases highlight model parallelism as a key optimization technique.

質問 # 61
Your AI data center is running multiple high-power NVIDIA GPUs, and you've noticed an increase in operational costs related to power consumption and cooling. Which of the following strategies would be most effective in optimizing power and cooling efficiency without compromising GPU performance?

- A. Implement AI-based dynamic thermal management systems.
- B. Switch to air-cooled GPUs instead of liquid-cooled GPUs.
- C. Reduce GPU utilization by lowering workload intensity.
- D. Increase the cooling fan speeds of all servers.

正解：A

解説：
Implementing AI-based dynamic thermal management systems is the most effective strategy for optimizing power and cooling efficiency in an AI data center with NVIDIA GPUs without sacrificing performance.
NVIDIA's DGX systems and DCGM support advanced power management features that use AI to dynamically adjust power usage and cooling based on workload demands, GPU temperature, and environmental conditions. This ensures optimal efficiency while maintaining peak performance. Option B (reducing utilization) compromises performance, defeating the purpose of high-power GPUs. Option C (switching to air-cooling) is less efficient than liquid-cooling for high-density GPU setups, per NVIDIA's data center designs. Option D (increasing fan speeds) raises power consumption without addressing root inefficiencies. NVIDIA's documentation on energy-efficient computing highlights dynamic thermal management as a best practice.

質問 # 62
Which of the following NVIDIA tools is primarily used for monitoring and managing AI infrastructure in the enterprise?

- A. NVIDIA DGX Manager
- B. NVIDIA NeMo System Manager
- C. NVIDIA Data Center GPU Manager
- D. NVIDIA Base Command Manager

正解：D

解説：
NVIDIA Base Command Manager is an enterprise-grade platform for monitoring, orchestrating, and managing AI infrastructure at scale, including DGX clusters and cloud resources. It offers unified visibility and workflow automation. DCGM focuses on GPU monitoring, DGX Manager is system-specific, and NeMo System Manager is fictional, making Base Command Manager the enterprise solution.

質問 # 63
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