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Valid Test NCP-ADS Questions Vce & Free PDF Reliable NCP-ADS Exam Questions: NVIDIA-Certified-Professional Accelerated Data Science

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NVIDIA-Certified-Professional Accelerated Data Science Sample Questions (Q136-Q141):

NEW QUESTION # 136

You are tasked with processing a large dataset of 100 million records for a deep learning project using NVIDIA technologies. You need to determine the most efficient data processing library for this task to maximize performance and reduce processing time. Which of the following libraries is best suited for this task?

- A. cuDF
- B. PySpark
- C. Dask
- D. pandas

Answer: A

NEW QUESTION # 137

In the context of cloud computing, what are the key benefits of using GPUs for data science tasks? (Select two)

- A. Efficient handling of matrix operations in machine learning models
- B. Better for memory-intensive workloads
- C. Faster parallel processing for large datasets
- D. Lower energy consumption compared to CPUs
- E. Lower cost of cloud infrastructure

Answer: A,C

NEW QUESTION # 138

A machine learning engineer is training a large transformer-based model for natural language processing (NLP). They want to maximize training speed and efficiency using NVIDIA GPUs.

Which of the following techniques would most effectively enhance GPU utilization and reduce training time?

- A. Using mixed-precision training with Tensor Cores
- B. Running training exclusively on CPU
- C. Disabling data parallelism
- D. Prefetching data with the CPU while training on the GPU

Answer: A

NEW QUESTION # 139

You have a multi-GPU cluster running RAPIDS with Dask to process a large dataset stored in Apache Parquet format. During execution, you notice some GPUs are underutilized, while others are overloaded, leading to uneven processing times.

What is the most effective way to balance the workload across GPUs?

- A. Use Dask's adaptive scaling to dynamically adjust the number of GPU workers
- B. Split the dataset into smaller chunks manually and assign them to GPUs
- C. Switch to a CPU-based framework like Spark to distribute the load evenly
- D. Increase the number of worker threads per GPU manually

Answer: A

NEW QUESTION # 140

A financial institution is training a fraud detection model on a GPU-powered NVIDIA RAPIDS cuML pipeline. Their dataset includes customer ages, transaction amounts, merchant names, and transaction timestamps.

To optimize GPU memory usage while preserving accuracy, how should they store these features?

- A. Keep customer ages in float16 format to reduce memory consumption, as integer types are less efficient in GPU operations.
- B. Convert all numeric data to float64 for maximum precision, as rounding errors in lower precision could impact the model's accuracy.
- C. Convert timestamps into UNIX epoch integers instead of using datetime64 for more efficient GPU computations.
- D. Store transaction amounts as float32, customer ages as int8, merchant names as categorical, and timestamps as datetime64.

Answer: D

NEW QUESTION # 141

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