SOLUTION: Data COUNTRY: United Arab Emirates

جامعـة نيويورك أبوظبي NYU ABU DHABI

"Everybody is talking about using AI to speed up their research. They want deep learning. They want data mining of large amounts of data."

- DR. MUATAZ AL-BARWANI DIRECTOR OF HIGH PERFORMANCE COMPUTING AND RESEARCH SUPPORT NYU ABU DHABI DEEP LEARNING WITH AI-ENABLED HPC POWERS WORLD-CHANGING RESEARCH

NYU Abu Dhabi was established in 2010 in partnership with New York University and the Emirate of Abu Dhabi. It is the first comprehensive liberal arts and science institution in the Middle East to be operated abroad by a major U.S. research university.

USE CASES

- Enable greater speed and precision in academic research with artificial intelligence (AI) and deep learning
- Advance life-changing discoveries in fields as diverse as linguistics, cognitive neuroscience, and climate science
- Offer state-of-the-art research facilities to attract the world's top faculty researchers

REQUIREMENTS

• Build system to accelerate AI and deep learning projects

- Support a broad range of usage, from highly parallel processing applications running across multiple nodes simultaneously, to applications that run thousands of small jobs on a single node
- Ensure the most efficient utilization of storage infrastructure, while enabling researchers to easily retrieve archived data when needed

SOLUTION

NYU Abu Dhabi's latest HPC cluster—named Dalma after one of the islands in Abu Dhabi is built on HPE Apollo 2000 and HPE Apollo 6500 systems across a Mellanox fabric; it provides 385 teraflops and capacity for over 5 PB of storage.

OUTCOMES

INDUSTRY:

Higher Education

- Accelerate discoveries in world-changing research projects
- Increase the performance of some computational processes nearly 100X
- Enables researchers to explore new ideas without computational limitations
- Positions NYU Abu Dhabi as a leading global research institution

ADDITIONAL RESOURCE

CASE STUDY: Deep learning with Al-enabled HPC powers world-changing research at NYU Abu Dhabi

ightarrow explore digital game changers



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