NetApp

NETAPP HPC AND AI SOLUTIONS FOR HIGHER EDUCATION

Bring academia and research to new levels with high-performance computing and AI solutions built on an intelligent data infrastructure.

Changing how professors teach and how students learn

High-performance computing (HPC) and artificial intelligence (AI) are game-changers for education institutions. By leveraging the power of data, institutions can gain insights into student behavior and engagement, optimize course contents and delivery, automate grading and test preparation, and personalize the learning experience.

Outside the classroom, HPC and AI can help monitor campus security cameras, manage traffic flow, and control heating and cooling systems in buildings. HPC and AI also enable robust research capabilities to support groundbreaking discoveries, acquisition of funding from various grants, and recruiting and retaining the best professors and students.

Modernize data storage

NetApp helps you deliver new capabilities faster, today and in the future, with an intelligent data infrastructure that's built on the broadest portfolio of unified data storage available anywhere. From hybrid flash, all-flash FAS, and all-flash SAN arrays to software-defined object storage, NetApp® unified storage solutions deliver the right performance for the right price. The result is a modernized infrastructure that delivers a more responsive platform to connect students, accelerate learning, and enable groundbreaking research. Learn more.

NetApp ONTAP® data management software unifies management of any data type, any workload, and any application, anywhere. NetApp BlueXP™ delivers operational simplicity through unified management and integrations, intelligent insights, and automation—all with the integrated data protection you need to keep your critical data secure. Learn more.

NetApp HPC and AI solutions built on an intelligent data infrastructure address the challenges higher education institutions face.

Data growth, sharing, and accessibility
An intelligent data infrastructure from NetApp allows you to easily scale out and scale up to keep pace with data growth. Multiprotocol support simplifies moving, sharing, and accessing data across researchers and the university.

Technologies such as NetApp® FlexCache software and NetApp StorageGRID® object storage democratize data access for quick and efficient data sharing. Because one size does not fit all, NetApp solutions are tunable to deliver the right performance for the right workload. Storage efficiencies such as data deduplication, compression, and compaction help you keep more data with less storage.

Data security and compliance
To make sure your sensitive data is secure, private, and complies with various regulations, NetApp solutions enable you to build a Zero Trust architecture. Multifactor authentication (MFA), role-based access control, continuous monitoring, data segmentation, and hardware and software encryption for data at rest and in flight are some of the security features NetApp solutions offer. NetApp BlueXP™ classification automatically classifies data for compliance. For added peace of mind, NetApp solutions meet FIPS 140-2, ISO/IEC 27001, and NIST SP 800-171 requirements.

Data preservation and archiving
NetApp Snapshot technology creates air-gapped, immutable, indelible, ransomware-proof backup copies of data that deliver up to 15-9s of data durability. Built-in data protection enables you to easily incorporate 3-2-1 backup schemes. NetApp SnapVault software enables data stored on multiple systems to be backed up to a central, secondary system. BlueXP tiering automatically moves cold data to cost-effective cloud storage.

Resource constraints
NetApp offers a range of HPC and AI solutions to meet your budget and staffing constraints. Built-in automation and unified data management take the burden off your IT staff. And, our solutions can help you build a compliant infrastructure to qualify for federal dollars to fund initiatives.

NETAPP HIGHLIGHTS

- Leader in Gartner Magic Quadrant for Primary Storage Platforms (2024)

- GigaOm Radar for Primary Storage places NetApp in the Leaders circle

- Named the 2024 Company of the Year by Frost & Sullivan

- Integration with the world's largest clouds; the only vendor with first-party storage solutions in Amazon, Microsoft, and Google Cloud

- First storage provider to have CSfC-validated systems to support classified data

NetApp in practice
Yale New Haven Health's next-generation Computational Health Platform uses AI systems, machine learning technologies, and a unified data lake to enable scientists to access the data they need, when they need it for deeper insight and faster discoveries. This platform is fully managed by NVIDIA and NetApp, allowing Yale scientists to focus on research and outcomes instead of building and managing a complex AI infrastructure. Watch the video.

Laboratory for Atmospheric and Space Physics (LASP) scientists at the University of Colorado Boulder can easily collaborate and more effectively manage massive amounts of data for space missions with their out-of-this-world HPC solution from NetApp. Read the full story.

Get started today
To make getting started easy, NetApp and NVIDIA have partnered together to create AI-ready reference architectures and easy-to-deploy solutions that deliver validated performance results.

Learn more about NetApp HPC and AI solutions.

Contact Us

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