UMass Boston

AI Core Facility

Infrastructure and algorithms for massive data collections

Capabilities

The Artificial Intelligence (AI) Core Facility at UMass Boston provides infrastructure and algorithms for machine learning on massive data collections. Services include specialized data management and targeted software development to minimize the cost of manual data processing.

The AI Core Facility offers access to these key resources:

- High-performance computing equipment
- Specialized data management and targeted software development to minimize manual data processing
- Workforce development and career-ready training experiences in data science

Depend on the AI Core Facility for a cost-effective way to access expertise, high-performance computing clusters, and vast storage capabilities.

Equipment

Two NVIDIA DGX A100 systems with these capacities:

- 2 TB RAM
- 30 TB storage
- 8x A100 GPUs
- High-performance switch

Five Alienware Linux workstations equipped with NVIDIA GeForce 2080 Ti GPUs or better.

Applications

- Virtual assistants
- Pattern recognition
- Recommendation engines
- Fraud detection
- Computer vision
- Large language models (LLMs)
- Real-time processing
- Scientific simulations

Daniel Haehn, PhD
Associate Professor of Computer Science and AI Core Facility Director

As director of the AI Core Facility, Daniel Haehn leads a highly skilled team that provides technical assistance and training to both internal and external clients. He specializes in biomedical imaging and visualization. His research explores how brain connectivity and machine perception can deepen understanding of biologically inspired artificial intelligence.

umb.edu/research/cores

100 Morrissey Blvd., Boston, MA

daniel.haehn@umb.edu

617.287.6453

UMass Boston Research Core Facilities

Contact us to find out more about our services!

26.2306_RC.AM