

# Edge Computing: Universities



Edge computing can improve online classes, boost efficiency, and create a more engaging learning experience. Carnegie Mellon University's Living Edge Lab is an excellent example of university edge computing. It invented "cloudlets," edge-based data centers that reduce bandwidth and latency.

*"Edge computing relieves overloaded networks, speeding up connections even during peak hours. Also, it simplifies virtual classroom communication and enhances school learning with smoother and more realistic virtual reality (VR) applications."*



## Specific Use Cases

### Improves Security

By reducing the amount of data sent across the network, edge computing can improve security. As a result, it can secure applications dealing with sensitive data, for instance, student records, research data, and more. Reduced data transfers can also strengthen the network's resistance to cyberattacks.

### Relieves Overloaded Networks During Peak Hours

By processing data locally, edge computing can help universities relieve overloaded networks during peak hours. Data does not have to be sent to a centralized server, which can reduce network congestion and latency. Because of this, applications can perform better and more reliably.

### Improves Scalability

Edge computing can improve scalability by allowing schools and universities to deploy more computing resources closer to the end user. Thus, it can assist schools and universities in meeting their increasing data generation needs without investing in costly new infrastructure.



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## Improves Virtual Experiences and Remote Learning

Universities can improve their remote and virtual learning programs by utilizing edge computing. Because data processing is done in a location like a modular center that is physically close to the end user, it can provide a more consistent and reliable connection.

Accordingly, it efficiently powers virtual learning to give students a more immersive and realistic experience. Furthermore, lower latency and faster response times improve efficiency and communication in virtual classrooms, resulting in fewer disruptions.

## Boost Your Potential

Unlike traditional data centers, modular data centers are deployed in weeks rather than months or even years. As a result, they are ideal for universities that need to rapidly expand their IT infrastructure to meet the demands of an expanding student population or new academic programs. Modular data centers are also more secure, energy-efficient, and reliable, making them viable options for universities seeking cost-effectiveness.

Now is the time to take your university's IT to the next level with modular data centers.



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