Accelerate AI with Cisco Computing Solutions

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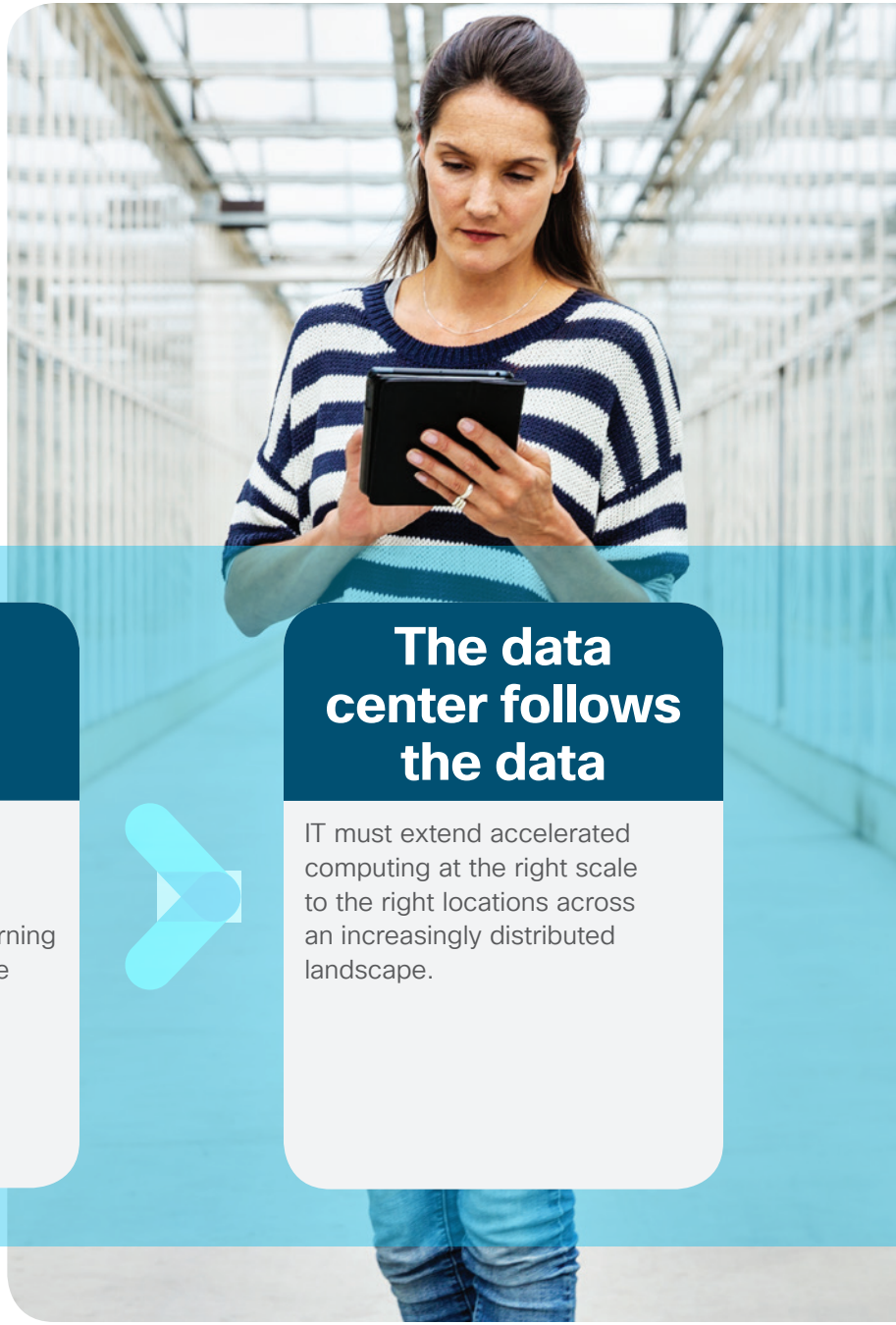
Data is everywhere.

Your data scientists are propelling your business into a future of data-driven intelligence. But how do you deploy and manage artificial intelligence (AI) and machine learning (ML) workloads at scale?



Big data journey

Traditional data center technology is not designed to handle the volume, velocity, and variability of AI and ML workloads at production scale.

Uncharted territory

The AI ecosystem is still in the early stages resulting in fragmented, unfamiliar, and rapidly evolving machine learning software stacks that increase complexity and risk.

The data center follows the data

IT must extend accelerated computing at the right scale to the right locations across an increasingly distributed landscape.

AI at scale is hard.

Data scientists gather huge amounts of data from IoT devices, legacy databases, flat files, SQL servers, email, and social media. The massive amount of data consumed by machine learning is fundamentally changing how applications behave, requiring systems that can adapt to new data-shaped workloads.

IT needs

- A full portfolio of AI/ML computing solutions to deliver AI at scale.
- Proven, full-stack solutions developed with industry leaders to demystify AI/ML.
- The simplicity and reach of cloud-management.

AI is a journey.

Test, development, and model tuning

Data scientists need to iterate frequently to build the right model

IT organizations need to provide data scientists a flexible and easy way to set up environments so they can experiment quickly

Hyperconverged infrastructure and Cisco UCS® servers with optional GPUs deliver the flexibility needed: Cisco HyperFlex™ HX240c M5 All-Flash Node and Cisco UCS C240 M5 Rack Server

Cisco HyperFlex HX240c

Cisco UCS C240 M5

Machine learning and deep learning

This is the most data and compute-intensive part of the AI lifecycle

IT organizations need to provide accelerated computing solutions that can keep up with AI algorithms

Specialized servers with GPU-dense designs deliver the power needed to run the models at scale: Cisco UCS C480 ML M5 Rack Server

Cisco UCS C480 ML M5

Inferencing

This is where you reap the benefits of AI with actionable insights derived from new data

IT organizations need to deliver computing power close to the data source to process the data quickly and efficiently

General-purpose servers or hyperconverged infrastructure with optional GPUs provide the power needed to process new data quickly and deliver meaningful insights: Cisco UCS C240 M5 Rack Server, Cisco UCS C220 M5 Rack Server or Cisco HyperFlex HX240c All-Flash Node

Cisco HyperFlex HX240c

Cisco UCS C220 M5 and Cisco UCS C240 M5

AI powered by Cisco UCS.

Capitalize on the adaptability of Cisco machine learning computing solutions to power AI workloads at scale. Reduce risk with a broad set of validated technologies designed to extract more intelligence out of all stages of the data life cycle. Simplify operations with a cloud-managed system.

Data lifecycle expertise

Our experience in big data and machine learning has helped many customers integrate changing data sources as part of a dynamic data pipeline.

Demystify ML stacks

Our validated AI/ML computing solutions combine a broad set of technologies and applications to help extract more intelligence out of all stages of the data lifecycle while helping to ensure a faster, more reliable, and predictable deployment.

The data center is where the data is

Only Cisco pairs a full portfolio of AI and ML computing solutions with the simplicity and reach of the Cisco Intersight™ cloud-management model.

Why Cisco?

You want to extract more intelligence from your data—throughout its lifecycle. AI helps you to learn from your data and make better, faster decisions.

We offer a portfolio of computing solutions that addresses all the stages of the AI lifecycle. Cisco Services, with certified-partners, provide the right mix of analytics, deep-learning, and automation capabilities to transform your data center faster.

Cisco is the worldwide leader in networking technology and can provide the bandwidth and security required to move the amount of data consumed by AI from data collection, to model training, to inferencing.

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