

Big Data Center Intelligent Internet



AI Overview

Intelligent internet in big data centers integrates AI-driven networking, high-speed connectivity, and advanced infrastructure to optimize performance, scalability, and operational efficiency for modern workloads.

AI-Driven Networking Modern data centers are increasingly adopting AI networking solutions to handle the growing demands of GPU-intensive workloads and large-scale AI models. Platforms like Cisco AI Networking unify intelligence from silicon to software, enabling automated operations, deep observability, and secure, scalable performance. These networks optimize GPU utilization, reduce latency, and improve power efficiency, ensuring deterministic performance even under high AI compute loads. Specialized fabrics, such as fat-tree or hypercube topologies, allow thousands of GPUs to communicate in parallel without bottlenecks, supporting sub-microsecond latency for AI training and inference.

Infrastructure Management and Scalability AI-ready data centers rely on Data Center Infrastructure Management (DCIM) and modular, resilient designs to support high-density computing and real-time analytics. Gartner emphasizes that secure, scalable, and energy-efficient infrastructure is critical for AI adoption, with platforms like Schneider Electric's EcoStruxure™ IT providing monitoring, automation, and operational resilience. Microgrids and intelligent power distribution help meet the massive energy demands of AI workloads, which can grow exponentially as large language models scale.

High-Speed Connectivity The rise of AI has transformed intra-data center and interconnect networks. Traditional north-south traffic patterns are complemented by east-west traffic between GPUs and servers, requiring port speeds of 400–800 Gbps per GPU and ultra-low latency communication. Data center interconnect (DCI) capacity is expanding to support hyperscalers and AI powerhouses, enabling distributed compute across multiple locations to manage power constraints and maintain performance. Ethernet fabrics, Kubernetes integrat...

Article Content

Inside the relentless race for AI capacity

Artificial intelligence data centres such as this one on Portugal's south-west coast are vast symbols of a new frontier in computing. These nondescript buildings house the cutting-edge...

What are 10 Largest AI Data Centers in the World?

Explore the world's 10 largest AI data centers in 2026, powering generative AI with massive GPU clusters, gigawatt-scale energy, advanced cooling, and sustainable infrastructure built

The Billion-Dollar AI Gamble: Data Centers As The New High ...

Explore the vital role of data centers in powering AI and the digital economy, and discover why understanding their use cases is key to making successful investments.

Advancing Industrial AI Intelligence

Huawei Enterprise provides a broad range of innovative ICT infrastructure products and solutions for vertical industry and enterprise customers worldwide.

AI data center

An AI data center is a specialized data center facility designed for the computationally intensive tasks of training and running artificial intelligence (AI)

Beyond compute: Infrastructure that powers and cools AI data centers

Power and cooling equipment are the backbones of data center infrastructure. As the demand for AI data centers grows, innovations and on-time supply of this technology will become

Le rendez-vous des décideurs IT & Data qui

Rejoignez la 15e édition du salon Big Data & AI Paris, pour découvrir les conférences, les ateliers, les dernières innovations et les solutions concrètes qui

Meta Commits \$65B to Global AI Data Center Expansion

Meta is investing \$65 billion in new AI data centers to power LLaMA models, edge inference, and the next-gen internet. Learn how this buildout reshapes the future of digital infrastructure.

Intelligent Data Centres – Providing Unparalleled Technology

Altarea, France's leading low carbon urban transformation group, and Vantage Data Centres, a leading global provider of hyperscale data centre campuses, have announced the signing of a partnership to

Big Data Technologie Jobs und Stellenangebote

Big Data Technologie Jobs in Deutschland - Finden Sie passende Big Data Technologie Stellenangebote mit Stepstone!

Die besten KI-Aktien (2026)

Wir haben die besten KI-Aktien für dich analysiert. Erfahre jetzt, welche die vielversprechendsten AI-Unternehmen sind.

Black Hat USA 2025 | Briefings Schedule

Speaker: David Brauchler III Tracks: Application Security: Defense, AI, ML, & Data Science Format: 40-Minute Briefings Location: South Seas C & D, Level 3 LATE

What is big data?

What is big data? Big data refers to massive, complex datasets that traditional data management systems cannot handle. When properly collected, managed and

Messen für künstliche Intelligenz – Messetermine ab Juli 2026

Messen für künstliche Intelligenz – Messetermine ab Juli 2026 Messekalender mit Messen für künstliche Intelligenz ab dem 01.07.2026. Künstliche Intelligenz (KI) ist die Fähigkeit eines Systems, auf

Tech AI spending approaches \$700 billion in 2026, cash taking big hit

Tech's megacaps announced major increases in capex spend for 2026, and now investors are preparing for cash to dwindle.

Reuters | Breaking International News & Views

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Data centres: the powerhouse fueling the digital age

With the advancement of AI applications, such as autonomous driving, the demand for greater data centre capacity will grow accordingly. To fully reach AI's potential, new data centres

Oracle APEX

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Big tech spending on AI data centers and infrastructure

Big Tech plans to spend between \$364 billion and \$400 billion on AI data centers, purchasing specialized AI hardware like GPUs, and supporting

Big Data Archives | TechRepublic

Big Data is happening now. Learn about the tips and technology you need to store, analyze, and apply the growing amount of your company's data.

Databricks: Leading Data and AI Platform for Enterprises

Databricks offers a unified platform for data, analytics and AI. Build better AI with a data-centric approach. Simplify ETL, data warehousing, governance and AI on

A Road Map for AI Data Center Infrastructure

Technical innovation, regulatory innovation, and funding can help close the gaps in powering AI, according to both power and data center

PwC: Audit and assurance, consulting and tax services

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Research library

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