

Power your AI at scale

AI Factory



NTT DATA's AI Factory enables repeatable, governed AI — turning isolated experiments into measurable business outcomes with an end-to-end production-ready stack. We help clients modernize, secure, automate and scale AI across the enterprise.

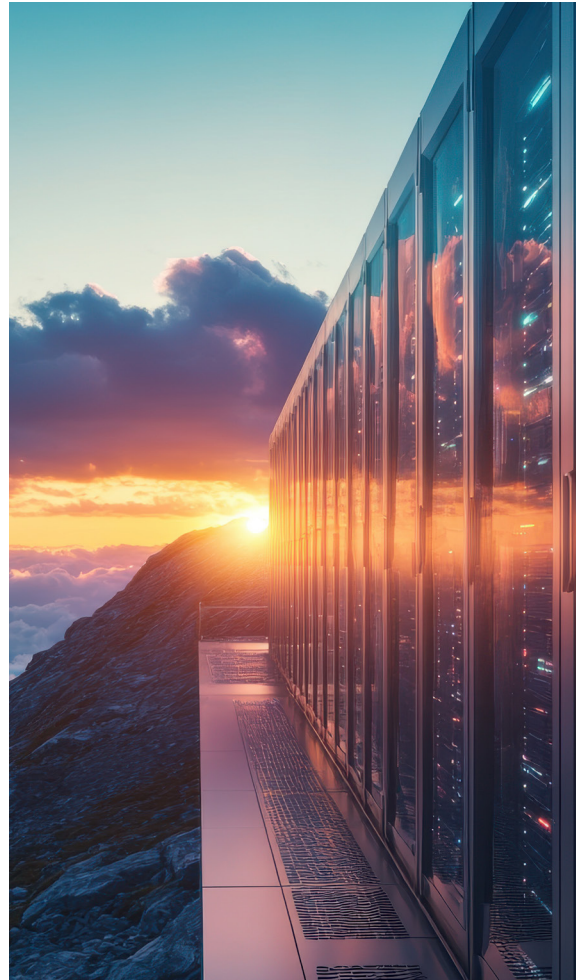
Accelerating the adoption of private and sovereign AI

NTT DATA's research shows "More than 95% of respondents say private and sovereign AI are important."¹ Therefore, governance, security and operational confidence at scale have become nonnegotiable.

AI has moved beyond experimentation. What were once isolated pilots are now expected to run continuously, reliably and at enterprise scale — powering real-time decisions, intelligent workflows and autonomous operations.

This shift is driving a fundamental change in infrastructure demand — from intermittent workloads to persistent, high-volume inference. As AI workloads scale and become business-critical, enterprises need tighter control over data, performance and security, driving a shift toward private or sovereign AI environments.

Yet most enterprise environments were not designed for this operating model and struggle with legacy architectures in networks, data pipelines, security and services models.



“ 35% of Chief AI Officers identify enabling private and sovereign AI as a top barrier to adoption, often requiring significant infrastructure change.”¹

To scale AI and accelerate the adoption of private or sovereign AI, enterprises must rethink the entire stack — from infrastructure to operating model.

¹NTT DATA, [2026 Global AI Report: A Playbook for Private and Sovereign AI](#).

Supporting enterprise AI transformation with control and compliance

NTT DATA AI Factory enables this transformation while ensuring clients retain ownership of data, models and policies across environments.

Our clients gain:



Full control over data, models and AI policies



Compliance with regulatory and data residency requirements



Secure, high-performance infrastructure environments



Flexibility across private, hybrid and distributed architectures

Delivering enterprise outcomes at scale

Every organization has unique requirements based on industry regulations, data sensitivity, operational maturity and scale. NTT DATA brings together proven architectures, operating models and real-world delivery experience to translate AI innovation into measurable business value.

Our AI Factory approach helps organizations:

- 1 Accelerate time to value by moving rapidly from concept to production
- 2 Improve productivity and reduce costs through intelligent automation and optimized operations
- 3 Enhance resilience, governance and security with control by design
- 4 Transform core operations through AI-driven autonomy
- 5 Empower the workforce and enhance customer experience with AI-driven personalization
- 6 Unlock new revenue streams through AI-native products, services and business models

NTT DATA

AI Factory solution

Our AI Factory delivers a secure, end-to-end platform and operating model for designing, building, deploying and scaling AI systems with lower complexity, stronger governance and reduced risk.

It industrializes the full AI lifecycle — from data ingestion and model development to fine-tuning, deployment and high-volume inference — within a unified, production-grade framework.

Built on three pillars:

01

Modernizing the foundation for AI

Build always-on, software-defined and AI-ready infrastructure designed for continuous inference and high-performance workloads

02

Embedding AI into operations

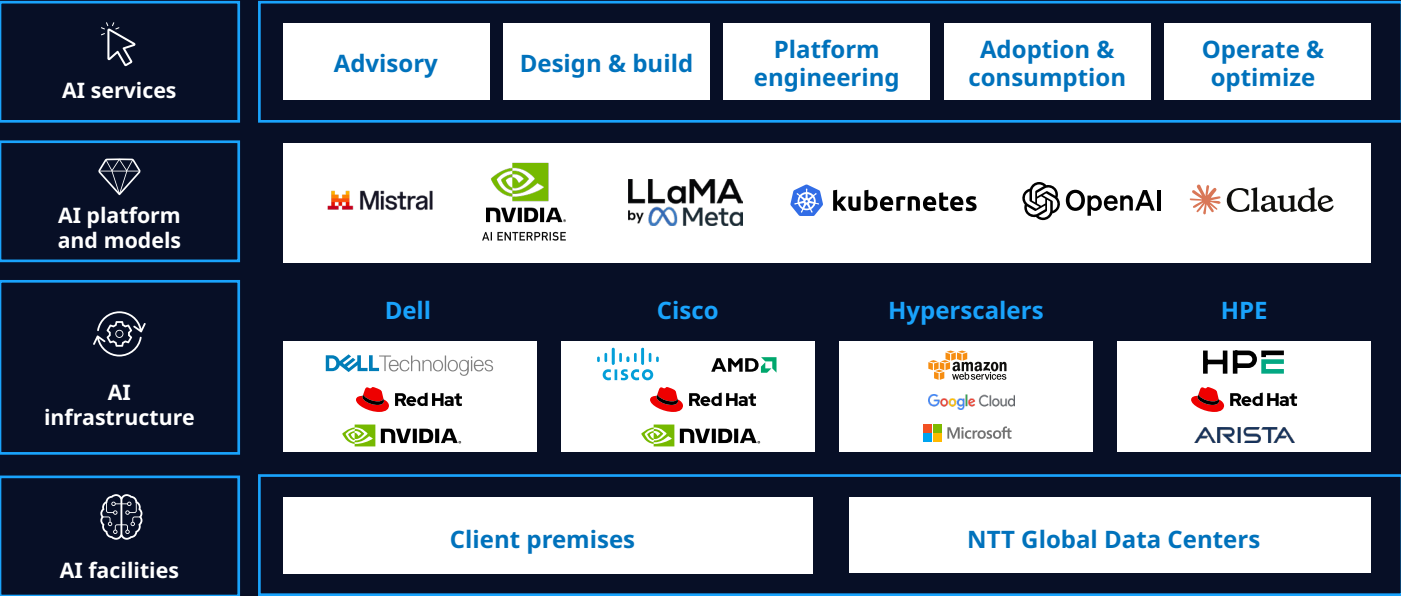
Move beyond dashboards to AI embedded directly into workflows — enabling intelligent agents to execute tasks, automate processes and drive productivity

03

Scaling with trust and control

Ensure governance by design, auditability and human oversight — making AI safe, compliant and reliable at enterprise scale

AI Factory architecture stack



A lifecycle approach to AI Factory services

NTT DATA delivers the AI Factory through modular, lifecycle-aligned services, supporting how enterprises plan, build, operate and continuously optimize AI capabilities.



Advisory

- Private and sovereign AI strategy
- AI business case development and economics
- Industry-specific AI strategy
- Private AI architecture blueprints



Design and build

Platform engineering

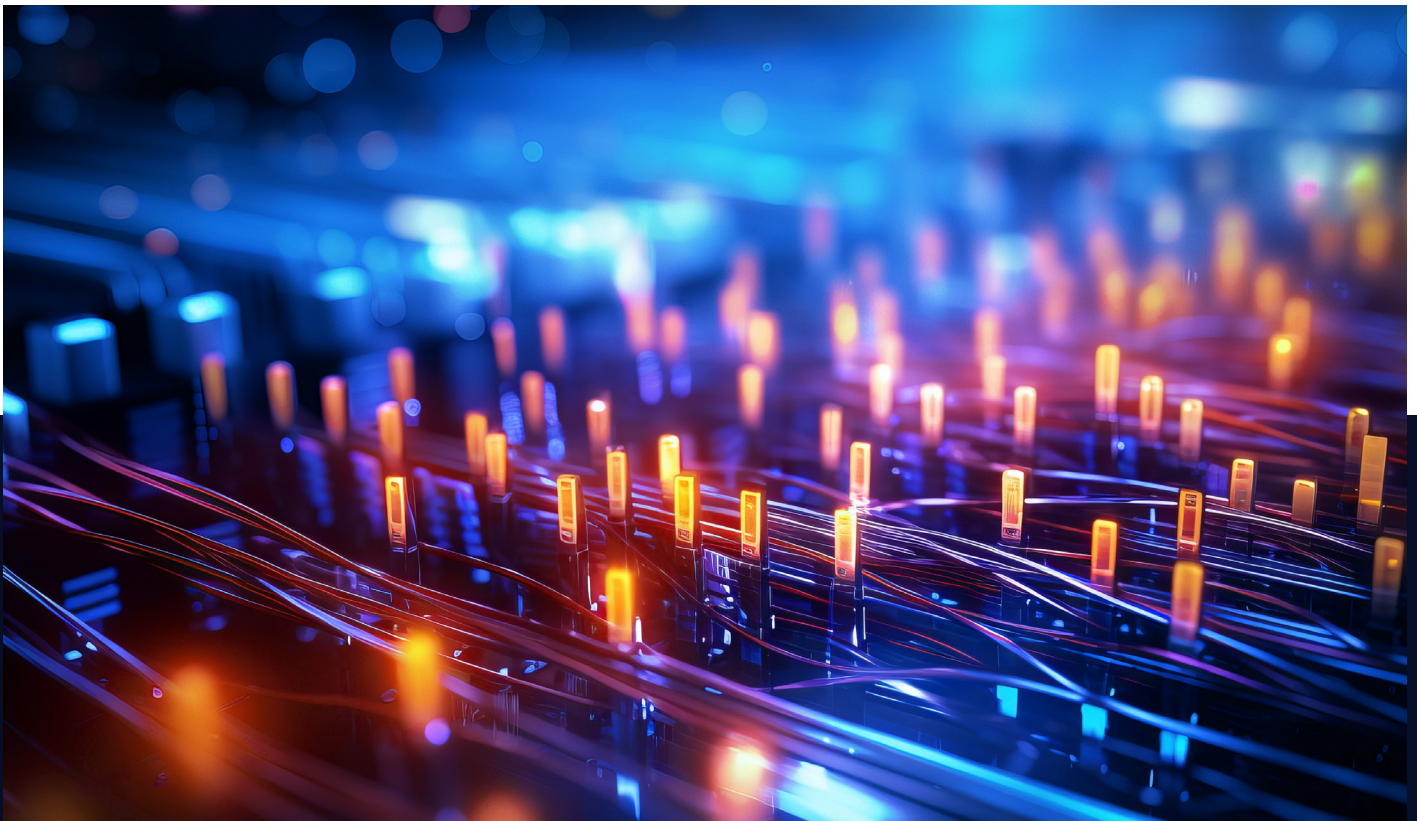
- Private AI factory deployment
- Secure AI infrastructure setup
- AI platform engineering
- Model onboarding and enablement



Adoption and consumption

Operate and optimize

- AI security and governance
- Observability and performance management
- AI optimization and cost-efficiency services
- Adoption, consumption and value realization services



Real-world deployments with measurable results

We extend these proven capabilities to our clients with infrastructure that turns advanced AI into measurable, domain-specific outcomes. Across industries, NTT DATA designs and delivers AI platforms that accelerate experimentation, reduce time to value and operationalize AI at enterprise scale.



Transportation

GYSEV uses video, LiDAR and AI to optimize track maintenance operations

NTT DATA, together with Dell Technologies and NVIDIA, helped GYSEV consolidate its AI infrastructure into a standardized, high-performance platform that supports multiple AI use cases across rail operations. This consolidation enabled predictive track maintenance at scale — using AI-driven monitoring to identify risks early, improve safety, reduce downtime and optimize maintenance planning.

Healthcare

Helmholtz Munich gears up for scientific computing and AI-based research

NTT DATA helped Helmholtz Munich strengthen its biomedical research capabilities with a future-proof high-performance data center. Moving its server infrastructure — including the high-performance computing (HPC) cluster and 360 GPUs — to NTT Global Data Centers, laid the foundation for a significantly more sustainable solution with efficient next-level scientific computing.





Automotive

GPU-as-a-service modernizes smart factory operations and reduces setup time

A global automotive supplier partnered with NTT DATA to modernize smart factory operations using GPU as a service built on NVIDIA AI infrastructure. This reduced production setup time from months to days by validating workloads on bare metal and scaling through an AI Factory architecture.

Manufacturing

AI-powered simulation enables scalable and efficient battery production design

A US-based advanced manufacturer is working with NTT DATA to virtually validate a next-generation battery production line using NVIDIA-accelerated simulation and 3D visualization, reducing commissioning risk, improving throughput and establishing a scalable foundation for future digital factory expansion.



What sets NTT DATA apart

NTT DATA helps organizations turn AI into business impact by aligning AI initiatives with enterprise strategy, operational realities and governance requirements.

Our approach embeds responsible AI principles, performance, security and cost controls directly into AI delivery — allowing enterprises to innovate faster without increasing risk.

Full-stack AI capabilities across infrastructure, platform and services

01

800+ data scientists
and **17,000+** AI
practitioners worldwide

02

Global experience
with local execution

03

Global procurement and
standardized architectures



Powerful partner ecosystem

We have deep partnerships with leading technology providers — combining infrastructure, platforms, accelerators and joint solutions.

One of the world's largest AI-optimized data center platforms

Presence across **155+** data centers in **20+** countries, enabling regional proximity and sovereignty

Designed for the demanding compute, storage and networking workloads for AI systems

Sustainability embedded by design, with net zero operational targets

Innovation, scale and industry recognition

The highest level of activity in healthcare, automotive safety, financial services, public sector, education, customer experience and elder care — sectors that depend on emotive accuracy and trust.



Global R&D investment: Part of NTT Group with investments of over \$3 billion annually in R&D



Proprietary language models: Deployed globally and available via leading cloud marketplaces



Ready for the next steps?

Engage with our experts in a discovery workshop to define a governed path from pilots to production — aligned to your sovereignty, security and performance requirements.

Visit nttdata.com to learn more.

NTT DATA is a \$30+ billion business and technology services leader in AI and digital infrastructure. We accelerate client success and positively impact society through responsible innovation. As a Global Top Employer, we have experts in more than 70 countries. NTT DATA is part of NTT Group.



