

Teradata AI Factory

Drive business growth with scalable, private AI-on your terms

Accelerate innovation with a purpose-built AI platform

In today's unpredictable global environment, enterprises face mounting pressure to innovate with AI—all while navigating a minefield of data privacy laws, compliance regulations, and operational risks. For industries like healthcare, finance, and government, the stakes couldn't be higher. Add the challenge of spiraling cloud costs and volatile GPU pricing, some enterprises are forced to limit AI access – stalling innovation. But what if you didn't have to compromise?

Introducing Teradata AI Factory, an on-premises AI platform ideal for regulated industries and organizations seeking greater control, security, and predictable costs for their AI projects. Teradata AI Factory transforms the complexity of AI investments into a streamlined experience by providing a fully integrated AI stack, enabling scalable and secure AI execution within a customer's data center.

Teradata AI Factory leverages existing GPU investments to deliver cost-efficient performance, eliminating unpredictable cloud expenses. With tools like the AI Workbench and ClearScape Analytics®, it simplifies AI operations, enhancing efficiency and productivity.

Teradata AI Factory delivers:

- **Analytics freedom:** Foster rapid innovation within an organization's own ecosystem, free from the constraints of production systems, IT dependencies, or disruptions to business-critical SLAs.
- **Best price/performance:** Manage resources with certainty with a predictable expense structure, eliminating the unpredictability of cloud expenses and maximizing resource allocation.
- **Ease-of-use:** Deploy quickly with a platform that is ready to use right out of the box, providing all the capabilities and preferred tools you need without extensive integration.
- **Improved productivity:** Enhance operational efficiency by automating complex processes and accelerating data processing.
- **Reduced risk:** Maintain control over sensitive data within your own infrastructure to meet regulatory and compliance standards and deliver trusted business results.



Everything You Need to Build, Deploy, and Scale AI

Teradata AI Factory brings together AI Workbench, Enterprise Vector Store, ClearScape Analytics®, and Teradata AI Microservices to deliver a unified, enterprise-grade AI experience.

AI Workbench

Enables a self-service environment empowering fast and secure AI exploration:

- **Collaborative and controlled development:** Multi-user JupyterHub with built-in resource management and Teradata-specific plugins enables secure, governed collaboration across teams—ideal for regulated industries and sensitive data environments.
- **Flexible, multi-language support:** Supports Python, R, and Teradata SQL to accommodate diverse data science workflows, empowering teams to innovate using familiar tools while maintaining compliance and control.
- **Rapid innovation:** Pre-built notebook accelerators enable rapid, repeatable AI/ML workflow deployment—empowering teams to innovate confidently and securely.
- **No-code exploration and visualization:** Empower business and technical users to uncover insights quickly with integrated, code-optional tools for data exploration, visualization, and time-series analysis.
- **Accelerated, governed automated machine learning (AutoML):** Build and deploy models faster using guided workflows that simplify development while ensuring operational integrity.
- **Secure Generative AI experimentation:** Seamlessly test Generative AI and RAG pipelines with built-in connectivity to the Enterprise Vector Store and LLMs—keeping sensitive data secure and AI innovation on premises.

Enterprise Vector Store

Store and retrieve billions of vector embeddings for generative AI use cases like RAG (retrieval-augmented generation), leveraging structured and unstructured data.

ClearScape Analytics®

In-engine analytics with 150+ AI/ML functions, enabling end-to-end real-time insights without data movement.

Teradata AI Microservices

Seamless integration with NVIDIA Inference Microservices (NIM) and your existing GPUs enables native RAG pipelines and model deployment, accelerating AI workloads while maintaining predictable, on-premises cost structures.

Your Partner for Scalable, Secure AI Innovation

Teradata AI Factory delivers the best of both worlds; Teradata's proven analytics and AI expertise combined with the security and control of on-premises infrastructure. It's an ideal solution for enterprises looking to scale AI innovation while managing costs and unplanned risks.

Industry leaders trust Teradata to drive value with data and AI. That's why Teradata is the Trusted AI company.

Get started now.

About Teradata

Every day we drive positive impact for hundreds of millions of people around the world with faster, flexible data integration and trusted, cost-effective AI innovation. By delivering harmonized data and Trusted AI, we enable more confident decision-making, unlock faster innovation, and drive the impactful business results organizations need most. **See how at [Teradata.com](https://www.teradata.com).**