HCLTech | Supercharging Progress™

Experience the transformational AI potential

HPE Private Cloud AI, together with HCLTech

Introduction

Artificial intelligence is shaping the future of business, but adopting and managing these technologies can be difficult. Enterprises need partners with deep AI expertise to unlock the power of AI and evolve with new requirements.

Impacting every industry, every day

The Artificial intelligence (AI) technology market is expanding at an unprecedented rate, driven by advancements across the AI spectrum. According to IDC:

- Generative AI (GenAI) is the fastest-growing AI segment.
  - More than **80%** of enterprises are experimenting with GenAI initiatives.
  - GenAI is growing at 2x the rate of AI overall.
  - GenAI will be a **$143 billion** market by 2027.
- GenAI will create massive value for successful adopters. By 2034, IDC forecasts that GenAI will add nearly **$10 trillion** to global GDP.
- AI training and inference need diverse computing resources. Training a large model often requires GPU-accelerated clusters with hundreds of petaflops of compute power over several weeks.
- Enterprises prefer a hybrid cloud approach to GenAI; **68%** of enterprises see hybrid and multicloud as key to their GenAI strategy, and 50% plan to use their own or dedicated infrastructure, not public cloud.

Even as AI's financial benefits continue to grow, statistics reveal that only 14% of customers have fully realized their AI strategy and that only 1 in 10 AI projects reach a live production environment. There could be many reasons for this disconnect:

- **Time to productivity:** Enterprises struggle to enable AI and IT operations teams to successfully transform from AI pilots to production and deliver business value from AI projects.
- **Complexity, security and privacy:** AI environments are complex to configure and operate securely, with various elements that need to work together.
- **Ability to scale:** Many organizations want to start small with their AI environment and grow with their maturity and demand, so they need to deploy a future-proof solution.
- **Cost and compliance:** AI may be seen as costly—both financially and in terms of complying with governance, regulation and sustainability—creating risks for an organization's brand and reputation.

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[1] IDC (January 2024). IDC Future Enterprise Resiliency and Spending. Wave 1.

[2] IDC (October 16, 2023). IDC Forecasts Spending on GenAI Solutions Will Reach $143 Billion in 2027 with a Five-Year Compound Annual Growth Rate of 73.3%.

[3] HPE Conversation Guide: Get Productive with AI

[4] IDC (January 2024). IDC Future Enterprise Resiliency and Spending. Wave 1.

[5] IDC (May 2024). Preference for Flexible Consumption of Dedicated GenAI Infrastructure.

[6] Forbes (January 8, 2024). Reasons Why Generative AI Pilots Fail to Move into Production.

AI is profoundly changing how we live and work, affecting every industry sector. For example, AI is revolutionizing:

Financial services by accelerating the review of complicated and sometimes subjective financial documents such as loan applications, while keeping money more secure with advanced fraud detection and prevention capabilities.

Healthcare by providing personalized treatments and speeding diagnosis, by offering powerful virtual assistants that can leverage expansive medical knowledge combined with private patient data to remove administrative burdens from doctors.

Retail and the public sector by enabling these organizations to improve customer experiences and efficiency through automation and dynamic forecasting, helping to reduce risk and drive increased customer satisfaction.

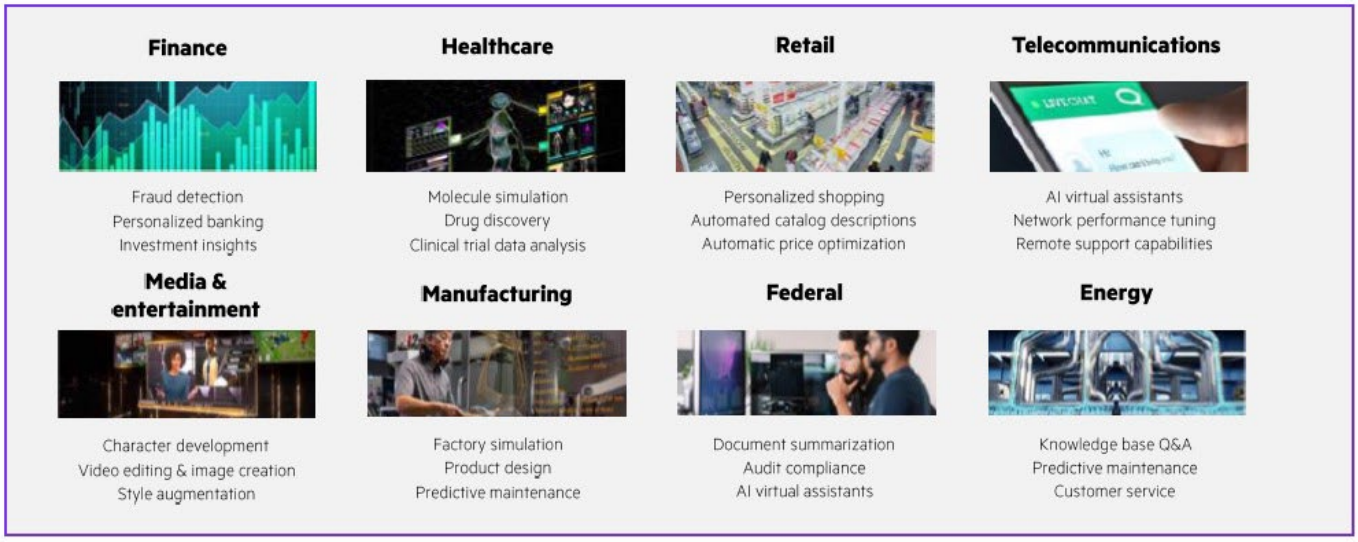

Figure 1. AI use cases across vertical industries

Image illustrating the AI uses cases across vertical industries, including Finance, Healthcare, Retail, Telecommunications, Media & Entertainment, Manufacturing, Federal and Energy.

Today, HPE and HCLTech can help your organization capitalize on the transformational potential of AI. When you work with HCLTech and HPE to deploy a tailored solution built on HPE Private Cloud AI and HCLTech's U4X (Utility for Everything), you can:

Turn your AI strategy into successful projects

Speed the time to value for your AI initiatives and beyond

Extend AI across your organization

Help make your data AI-ready

Solve your toughest business problems at scale

Delivering solutions for every stage of your AI journey

AI is opening unlimited possibilities for organizations of every size. HCLTech and HPE help you capitalize on those opportunities by delivering comprehensive AI solutions that can turn questions into discovery, insights into action and imagination into reality.

Turnkey private AI cloud

Co-developed with NVIDIA®—and part of the NVIDIA AI Computing by HPE portfolio—HPE Private Cloud AI is a turnkey private cloud designed to accelerate your path from AI pilot to production. Offering a public cloud experience in a private environment, this end-to-end AI platform combines NVIDIA AI Enterprise software and powerful GPUs, with leading HPE compute, storage, software and services.

HPE Private Cloud AI also includes HPE AI Essentials—a robust set of open-source tools that have been validated and integrated to address the needs of anyone involved in developing GenAI applications.

With HPE Private Cloud AI, you can use the latest technologies to gain secure access to all your data from data center to edge—helping you achieve instant AI productivity and drive greater value across AI use cases.

AI training

Using an extensive data set to train an AI model to make accurate predictions or decisions

AI tuning

Optimizing an AI model for a specific purpose, using a smaller data set to train the model further

AI inferencing

Allowing a trained AI model to conclude brand-new data

Workload-optimized configurations

Available in purpose-driven architecture sizes and expandable starting points, HPE Private Cloud AI includes everything you need to deploy and run the most common AI workloads. Depending on the workloads you need to support, you can choose from the following workload-optimized configurations.

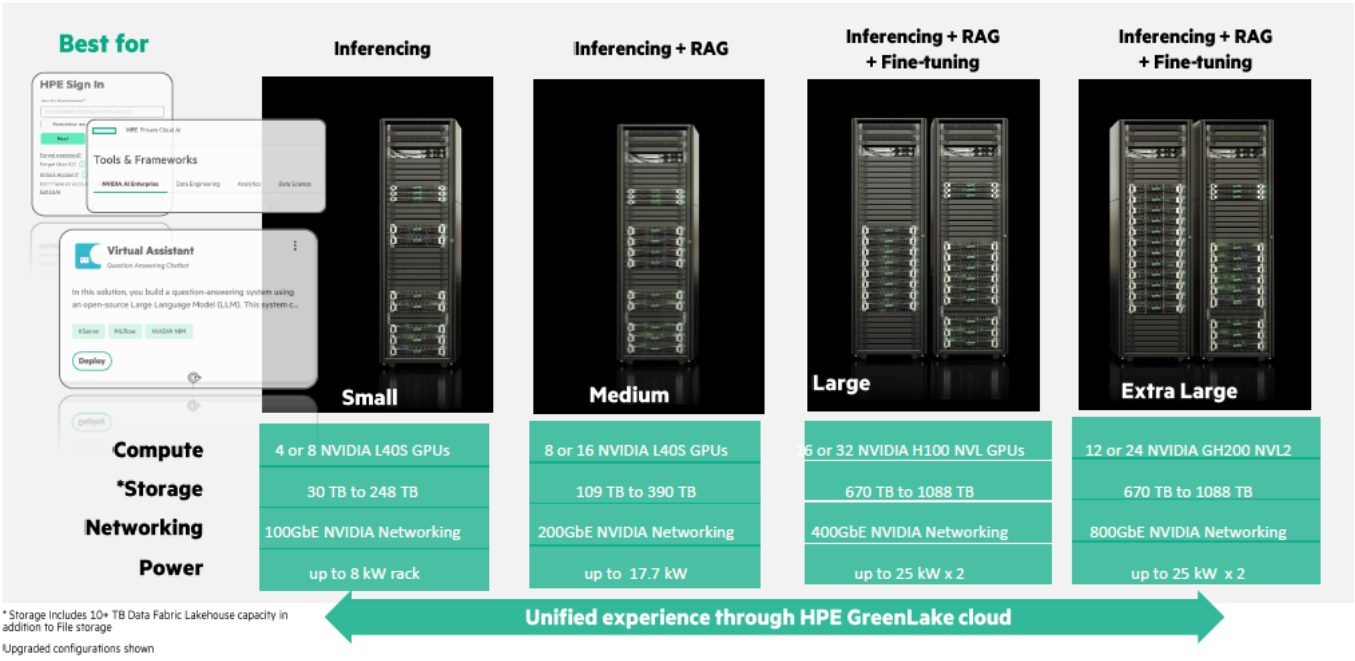

Figure 2. HPE Private Cloud AI architectures, in Small, Medium, Large, and Extra Large configurations

Alt text for Figure 1. Image illustrating the HPE Private Cloud AI architectures, available in Small, Medium, Large and Extra Large configurations.

HCLTech approach

AI advisory services

- Understanding specific use cases and proposing optimal approaches and methodologies
- Analyzing existing capabilities and crafting transformation roadmaps toward a cognitive IT infrastructure
- Data engineering and consulting to build robust systems for data ingestion, collection, storage and analysis

Platform and infrastructure build services

- Constructing the tailored cognitive hybrid IT infrastructure as per specific use case or requirement
- Building and deploying an AI platform of choice that allows clients to adopt GenAI at scale and ensures optimal performance
- Deploying data engineering services, data platforms and automated pipelines to be consumed for processes such as RAG, fine-tune, or pre-tune LLMs/AI models
- Integrating robust cybersecurity services that include security frameworks, LLM protection from unauthorized access and malicious attacks and data encryption to safeguard sensitive information

Operate and managed services

- Providing onsite/offsite support for the entire lifecycle management of cognitive infra
- System monitoring to check hybrid infrastructure components, detect anomalies and ensure optimal performance
- Continuous evaluation and monitoring of model health, accuracy, drift, bias and GenAI quality
- Managing AI platform to meet upcoming safety and transparency regulations and policies
- Providing valuable insights through the extracted data using advanced automated data pipelines

Table 1. HCLTech Cognitive Infrastructure service overview

Alt heading for Table 1. HCLTech Cognitive Infrastructure service overview

Alt text for Table 1. Graphic illustrating HCLTech Cognitive Infrastructure services, including AI advisory services, platform and infrastructure build services and Operate and Managed Services

Better together
HPE and HCLTech for the next era of AI

For more than 30 years, HPE and HCLTech have been driving innovation together. Our combined experience in AI, HPC, converged infrastructure, virtualization and hybrid cloud allows our customers to build on an integrated, scalable and automated IT platform for the future.

HPE and HCLTech work together to make IT environments more efficient and secure from edge to cloud—ensuring fast responses to a rapidly changing landscape without sacrificing privacy, performance, or control. Whatever the size of your organization, HPE and HCLTech can help you transform from traditional technology platforms to a supercomputing environment designed for the next era of AI and beyond.

Why HCLTech

- Positioned as leader in the 2023 Gartner® Magic Quadrant™ for Data Center Outsourcing and Hybrid Infrastructure Managed Services Worldwide.
- Rated as a Leader in ISG Provider Lens™ – Analytics Services, U.S. 2023
- Recognized with a Customers' Choice distinction in the 2023 Gartner® Voice of the Customer report for Data Center Outsourcing and Hybrid Infrastructure Managed Services, Worldwide
- Expertise in 100+ GenAI use cases
- Speeding time-to-market through cloud-native GenAI labs, LPS, and frameworks
- Backed by a pool of AI engineers, data scientists and infrastructure platform subject matter experts

Learn more at

hpe.com/us/en/alliance/hcl.html
hpe.com/AI

Part number, April 2025