

HCLTech | DELL Technologies | NVIDIA

HyOctAI: Fueling Enterprise AI Foundry with Private AI

HCLTech private AI solution powered by Dell Technologies and NVIDIA



Simplify the implementation and management of private AI with HyOctAI

Companies are embracing generative AI (GenAI) for a variety of use cases, but most enterprises are struggling to promote AI proof of concepts (POCs) to production due to cost considerations. A recent survey found that 65% of organizations regularly use GenAI, nearly double the amount from just 10 months prior. However, many still struggle to turn AI capabilities into measurable business outcomes, grappling with unpredictable costs, scalability and security concerns.

Private AI addresses these challenges by enabling more predictable, cost-effective deployments. This approach helps organizations avoid unexpected expenses and provides them with the flexibility to scale AI deployments without compromising on security or performance. As enterprises look to future-proof their AI investments, adopting private AI the right way is the key to aligning the total cost of ownership (TCO) with the return on investments.

Recognizing the complexity of deploying enterprise AI in the data center, three AI leaders have combined to deliver a unified solution. HCLTech HyOctAI, delivered in partnership with Dell Technologies and NVIDIA, combines these leaders' expertise to bring the power of GenAI to all businesses. HyOctAI provides organizations with a standardized infrastructure stack they can use to implement and run multiple AI projects and initiatives and scale and manage them consistently.

5 key reasons to use HCLTech HyOctAI

HCLTech HyOctAI powers responsible, private AI with a solution that protects customer data and delivers the technology organizations need to get the most out of AI. HCLTech helps businesses define their AI use cases, creates an AI design that caters to use cases and outcomes and securely brings AI to the data. The robust framework aligns the TCO and returns on investment, making AI adoption viable and reliable.



Enhanced reliability and accuracy:

AI models may generate items that don't align with the business strategy. HyOctAI puts the right guardrails and configurations in place to keep GenAI on track.



Improved reach:

AI needs to access as much data as possible. HyOctAI locates AI near the customer's data cost-effectively for faster access and lower latency.



Tighter security:

The joint solution helps ensure regulatory compliance to improve an organization's security posture, implementing AI behind existing security infrastructure.



Enhanced customization:

HyOctAI brings the right technology and software to enterprises, customizing tech stacks to meet business objectives, data locations and data formats.



Predictable TCO:

The AI-as-a-service solution provides cost predictability than the token model commonly used with AI products. Customers pay for infrastructure with no egress charges.

By leveraging these strengths, HyOctAI offers an end-to-end solution that empowers businesses to implement AI projects effectively, securely and at scale. It stands as a comprehensive offering that tackles the diverse challenges of AI adoption in enterprises, driving ROI and optimizing TCO.

Unlocking the potential of private AI through partnership

The HCLTech HyOctAI solution, offered in partnership with Dell Technologies and NVIDIA, runs on enterprise-class infrastructure across customer's data center, edge and hyperscalers to deliver private AI. This powerful partnership leverages the three companies' AI experience to build a solution that makes GenAI accessible and scalable for all organizations.

A partnership that powers enterprise AI

With Dell Technologies' hardware, NVIDIA's GPUs and NVAIE accelerating innovation and performance and HCLTech's experience in designing, implementing and managing comprehensive AI stack delivered as a service, HyOctAI removes the complexity of productizing AI. Built on top of Dell Technologies' AI Factory with NVIDIA, HyOctAI provides a customer-tested and validated set of Dell building blocks, interoperability and chip optimization, enhanced by NVIDIA to ensure that the solution meets business objectives.

The solution leverages HCLTech's AI Foundry to help drive AI transformation, jumpstart enterprise AI initiatives and cover the full lifecycle management of AI infrastructure. As part of AI Foundry, HCLTech HyOctAI delivers infrastructure design that runs AI like any other application, providing private AI for business use cases. HCLTech HyOctAI distills AI initiatives and infrastructure design to cater to companies' most relevant proofs of concept.

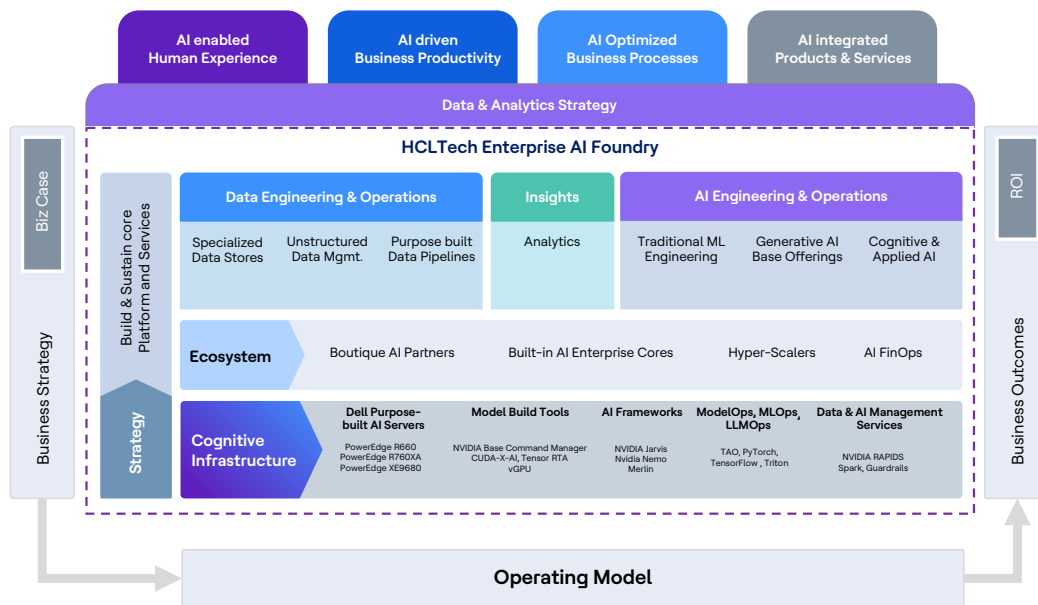
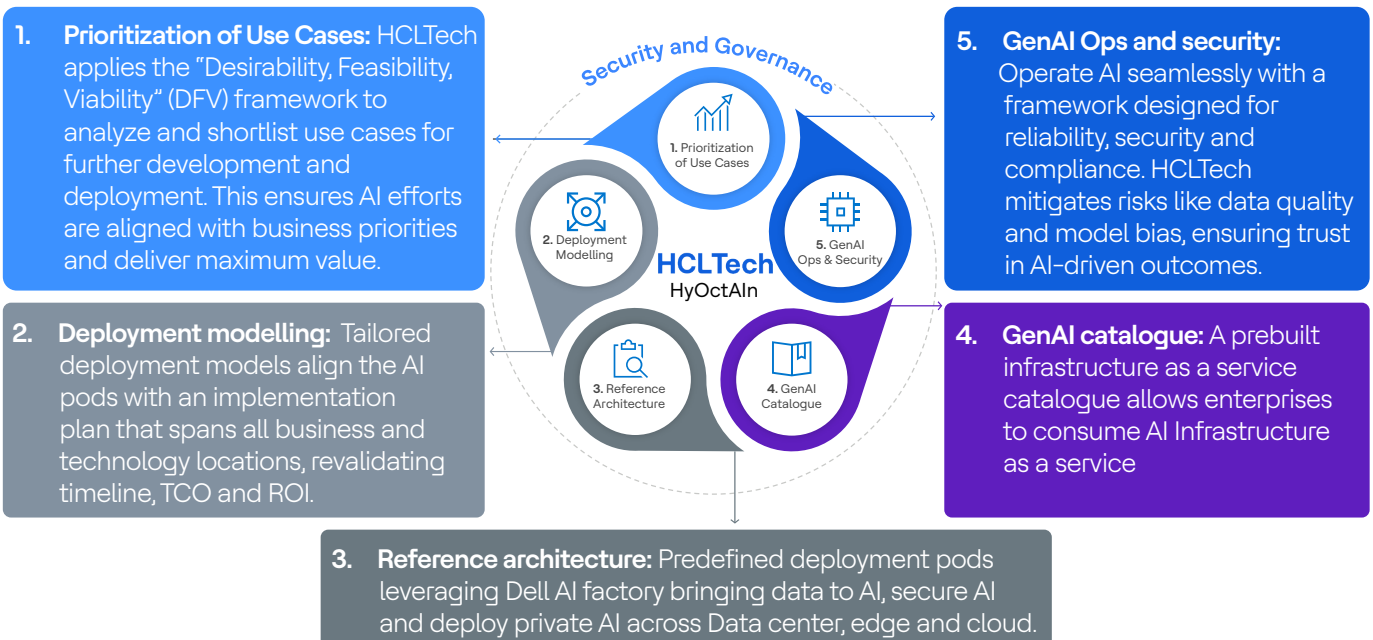


Fig 1: AI Foundry Alignment with Dell AI Factory

Five steps of HyOctAI : The right way to embrace AI

Our systematic approach ensures a secure and scalable private AI, delivering measurable business outcomes.



Four building blocks of AI to simplify deployment

- **Data POD:** Bring data to AI
- **Management POD:** To run management workloads to deliver responsible AI.
- **Inferencing and RAG POD:** To run AI models and generate business outcomes.
- **The training/tuning POD:** Train and tune AI model if required.

HCLTech HyOctAI leverages the Dell AI Factory and NVIDIA AI Enterprise to deliver a comprehensive portfolio of AI technologies and validated and turnkey solutions to deliver faster AI outcomes.

It helps enterprises scale their AI and GenAI capabilities, powered by the comprehensive Dell portfolio of AI infrastructure and services with NVIDIA's industry-leading accelerated computing platform-, a full stack that includes GPUs; networking; and NVIDIA AI Enterprise software, NVIDIA Inference Microservices (NIM), models and agent blueprints.

Accelerate Innovation with NVIDIA AI Enterprise

The integration of NVIDIA AI Enterprise brings optimized AI performance, faster deployment and scalable infrastructure to power AI-driven solutions across various environments. With advanced microservices and a comprehensive suite of tools, it accelerates data analytics, model training and AI optimization, enabling seamless AI operations at scale.

Key Features:

- **Optimized performance:** Enhance model inference with NVIDIA's NIM microservices, achieving up to 5X faster LLM throughput, 2X improved retrieval throughput, and 30% better accuracy.
- **Faster time to deployment:** Streamline the process with production-ready AI software containers, accessible via industry-standard APIs and reference architecture workflows.
- **Flexible deployment:** Run containerized microservices in cloud, data center, and workstation environments, ensuring consistent performance and scalability.
- **Enterprise-Grade reliability:** Access predictable software updates, API stability, proactive security remediation and dedicated NVIDIA Enterprise Support for smooth operations.

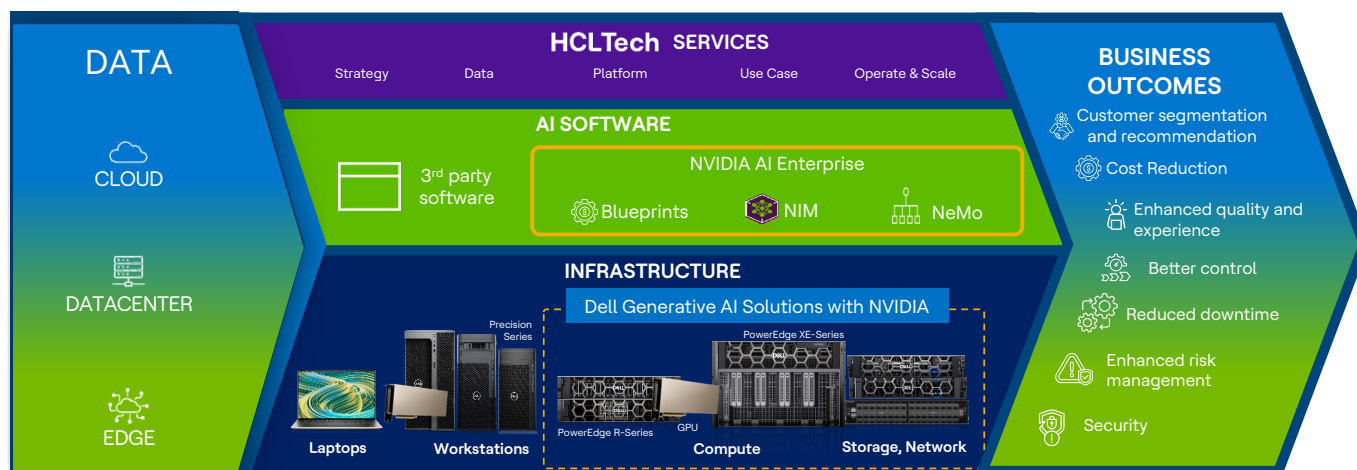


Fig 2: Dell AI Factory with NVIDIA AI Enterprise

HCLTech's AI security control framework

HCLTech's AI security control framework enhances your existing security architecture with GenAI-specific measures to ensure trust, manage risk and maximize benefit. The framework includes comprehensive compliance and standards adherence through data classification, privacy controls, security standards and compliance reporting. Key elements include implementing a zero trust security architecture, identity and access management, micro-segmentation, data encryption, endpoint protection and robust perimeter security. This multifaceted approach ensures secure and compliant GenAI deployment, safeguarding both data integrity and infrastructure.

Unlock the future of AI today: Build your enterprise-class private AI now

Enterprises seeking to enhance their competitive edge with AI and GenAI must act quickly. With HyOctAI, HCLTech offers a proven solution that drives clarity, prioritizes outcomes, and accelerates business results. This enables organizations to deliver predictable, reliable and accurate outcomes to their customers while optimizing TCO and ROI measures.

HyOctAI is poised to help enterprises unlock the full potential of GenAI in their organizations. HCLTech, Dell Technologies and NVIDIA bring the experience, knowledge and technological maturity to deliver enterprise-level AI solutions across industries. HyOctAI simplifies the complexity of implementation and lifecycle management, allowing your organization to realize AI's benefits today.

Build a strong foundation for enterprise-class private AI with HyOctAI. Get started today—contact us at ecosystem.marketing@hcltech.com to unlock your AI potential.



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