

Transforming AI Solutions:

Hypertec Cloud, Zyphra and VAST Data



Hypertec Cloud, a division of the Hypertec Group, is a multifaceted business with deep expertise in high-performance computing, AI infrastructure, and data center construction. Hypertec Cloud leverages its 40 years of experience in high-performance hardware and data center innovation to create bespoke AI infrastructure solutions. Hypertec Cloud is known for its innovative solutions in manufacturing high-performance hardware and developing cutting-edge data centers. Their offerings range from Infrastructure-as-a-Service (IaaS) to custom-tailored clusters for AI workloads. Hypertec Cloud's commitment to sustainability and efficiency is evident in their pioneering efforts in direct-to-chip liquid cooling, immersion cooling, and other energy-efficient technologies.

Hypertec Cloud's customer base is equally diverse, including Enterprise, Media and Entertainment (M&E), AI Platforms (PaaS), and developers of Frontier Large Language Models (LLMs) looking for high-performance, scalable infrastructure. Their ability to build clusters on demand and deliver them rapidly has made them a preferred partner for organizations with demanding workloads.

According to David Bitton, Vice President of AI and Product Strategy at Hypertec Cloud, the company's approach is rooted in innovation, flexibility, and sustainability. "Because of the strength of combining data center construction and hardware manufacturing, we have the luxury to build clusters on demand. This creates tailor-made solutions with the latest technologies," Bitton explained.

Bitton highlighted, "Innovation is key in whatever we do." This commitment to innovation led Hypertec Cloud to utilize the VAST Data Platform as part of the Hypertec Cloud offering. David underscored the strategic nature of the VAST Data collaboration: "Since day one when we decided to jump into AI, VAST Data was very involved with us. We got a lot of help in understanding and getting up to speed very quickly on AI. From the CEO to the engineering team, the level of support was exceptional." The partnership allowed Hypertec Cloud to deliver high-performance, tailor-made infrastructure solutions to its clients rapidly, even under exceptionally tight deadlines.

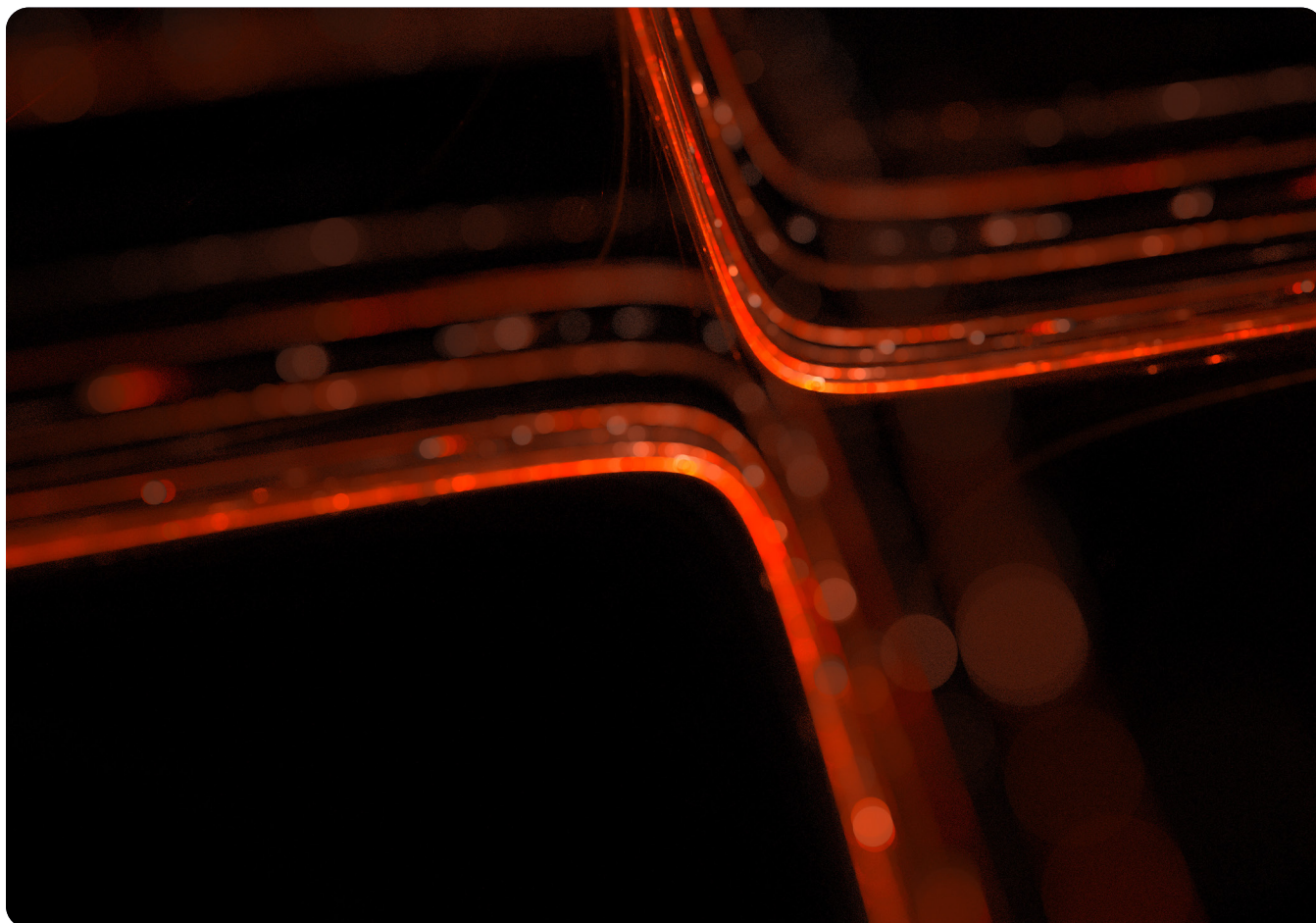
Hypertec and Zyphra: Enabling AI Innovation

Zyphra, an AI product company, specializes in creating small, efficient multimodal agent systems. CEO Krithik Puthalath described Zyphra's vision: "Our team is uniquely focused on building the best price-performance multimodal agent systems in the market today. We're innovating by combining next-generation architectures with elements like long-term memory and reinforcement learning."

Zyphra faced challenges in its early days, including scaling its infrastructure to handle the demands of training complex AI models and competing with established players in the field. As an AI product company, Zyphra focuses on developing multimodal agent systems that leverage innovations in long-term memory and reinforcement learning. The company's unique approach emphasizes efficiency and price-performance optimization, which is reflected in their flagship model, Zamba.

Zyphra's solutions are applied across a variety of domains, including domain-specific enterprise applications, consumer electronics, and next-generation agent systems. For example, Zamba has been instrumental in enhancing personalized interactions in consumer technology and optimizing operational workflows in enterprises. By working with Hypertec, Zyphra overcame critical hurdles, leveraging tailored clusters and optimized hardware to bring Zamba and other innovative models to market. Zamba's ability to outperform industry leaders underscores the effectiveness of these collaborative efforts, which continue to drive real-world impact.

The collaboration with Hypertec Cloud began during Zyphra's formative years. Puthalath highlighted the alignment between the two companies: "What drew us to Hypertec Cloud was their emphasis on thinking about the end-to-end platform and system in one unified manner. We've been able to deploy models both from the training side and now on the inference side with their best-in-class infrastructure."



Driving Innovation in Efficient Multimodal Models

Zyphra's focus is specifically around small, efficient models, aligning with the industry trend of shifting away from large cloud models toward compact, highly optimized solutions. Zyphra's innovations in efficient multimodal models still require large amounts of data and seamless processing capabilities. Through Hypertec Cloud, VAST Data provided the optimal data platform for these requirements. Puthalath explained, "VAST has been a tremendous partner to host our data and ensure extremely efficient data processing through the Hypertec Cloud platform."

The partnership has enabled Zyphra to scale its operations and innovate at a rapid pace. "We've had a phenomenal relationship with VAST through our partnership with Hypertec Cloud. Our team has been innovating deeply on foundation models across text and audio modalities and language text vision. This requires massive data sets, and VAST has provided the best data platform to store and efficiently process that data on Hypertec Cloud," noted Puthalath.

Puthalath added: "It's all about scale, scaling for enterprises, scaling for customers who want to develop and build agentic applications. We're very excited about bringing these solutions, the best agentic systems, to our customers through Hypertec Cloud and the VAST Data Platform."

About VAST Data

VAST Data is the data platform company built for the AI era. As the new standard for enterprise AI infrastructure, organizations trust the VAST Data Platform to serve their most data-intensive computing needs. VAST Data empowers enterprises to unlock the full potential of their data by providing AI infrastructure that is simple, scalable, and architected from the ground up to power deep learning and GPU-accelerated data centers and clouds. Launched in 2019, VAST Data is the fastest growing data infrastructure company in history. For more information, please visit and follow VAST Data on [X \(formerly Twitter\)](#) and [LinkedIn](#).



Scan here to learn more.

"VAST has been a tremendous partner to host our data and ensure extremely efficient data processing through the Hypertec Cloud platform."

— **Krithik Puthalath**, CEO of Zyphra

Driving AI's Future Together

The collaboration between VAST Data, Hypertec Cloud, and Zyphra exemplifies how partnerships can drive innovation and scalability. David Bitton emphasized the importance of sustainable innovation: "We're trying to merge sustainability with high-end compute to bring sustainable AI solutions. This partnership is about pushing boundaries and developing better innovations in AI." Puthalath echoed this sentiment: "We're excited to bring the best agentic systems to our customers through Hypertec Cloud and the VAST Data Platform." to bring the best agentic systems to our customers through Hypertec Cloud and the VAST Data Platform."