



SOLUTION BRIEF

# Revolutionizing Retail with AI

Transform your retail business with the power of real-time data analytics, unparalleled efficiency, and streamlined supply chain operations.

[VULTR.COM](https://vultr.com)



# Revolutionizing Retail with AI

***Lead the digital evolution of the retail industry with the combined strengths of Vultr's cloud infrastructure and NVIDIA's AI Platform***

In the ever-changing economic landscape, retail leaders are strategically leveraging the benefits of AI to enhance the customer experience and optimize operations. With Vultr's AI-enabled cloud computing solutions, powered by NVIDIA's cutting-edge technology, businesses can effectively stay ahead of the curve.

Accessible on six continents, Vultr's transformative offerings empower retail companies to harness AI for automating logistics, personalizing customer experiences, optimizing supply chains, and more. Featuring NVIDIA products, including the GH200 Grace Hopper™ Superchip, HGX H100, and NVIDIA AI Enterprise, Vultr's infrastructure provides a competitive edge. Choosing from a diverse range of virtual machines and bare metal servers equipped with high-performance NVIDIA GPUs with optimized software ensures scalability for intensive workloads.

## Empowering retail with high-performance AI and machine learning capabilities

Supercharge the efficiency of your retail business by leveraging predicted consumer data, embracing frictionless autonomous shopping, and optimizing your supply chain.

### **Accurately predict consumer demand**

Utilize AI and data analytics to accurately predict consumer demand, optimize stock levels, and minimize waste, ensuring that your retail operations are both efficient and responsive to market changes.

### **Create frictionless autonomous shopping**

Vultr's agile infrastructure and NVIDIA's technology empower cashier-less stores with AI, IoT, and computer vision. This integration offers a frictionless, tailored shopping experience while also streamlining inventory control and boosting operational efficiency.

### **Optimize your supply chain**

Deploy intelligent logistics solutions that enable real-time tracking, automated restocking, and efficient distribution, simplifying operations from warehouse to customer and enhancing supply chain efficiency.

## Challenge: Almost half of AI projects never make it to production

### **Increasing complexity**

32% of IT professionals rate increasing data complexity and data silos as a top barrier to AI adoption.

### **Lack of tools and platforms in AI**

28% of IT professionals rate lack of infrastructure as a top barrier to AI adoption.

Source: Gartner "P-19019 AI in Organizations," Claudia Ramos, Erick Brethenoux, 2020; IBM, "Global AI Adoption Index 2021"

## Vultr takes retail to new heights with AI-infused cloud solutions, offering unparalleled price-to-performance, globally

The retail industry is embracing AI, with a current adoption rate of 40% and is expected to reach 80% in three years. This shift is driven by the industry's need to address various challenges, such as increasing competition, changing consumer behavior, and the demand for personalized experiences.

Retail organizations face the additional challenge of navigating financial unpredictability while staying innovative. The need for cost-effective, robust AI solutions has never been greater. However, other cloud providers' high costs, complexity, and vendor lock-in create barriers to entry and block AI-powered industry growth.

To embrace and drive the industry's future, retailers need an affordable, high-performing, flexible solution that empowers them to deploy AI and high-performance computing initiatives at scale, globally.

# Supporting retail across six continents

**32** Cloud Data Center Locations



## The Vultr difference, powered by NVIDIA

### High-performance computing for complex tasks

With the integration of NVIDIA technology, Vultr's cloud infrastructure provides powerful computing capabilities for various high-performance tasks in the retail industry. This includes demand forecasting and advanced analytics, enabling retail operations to achieve unparalleled efficiency and precision for business growth.

### Unmatched adaptability for the evolving retail landscape

With Vultr's cloud infrastructure and NVIDIA's cutting-edge GPUs and optimized software, retailers can easily adapt to market changes and expand resources as needed. Retailers can seamlessly scale their operations during peak periods without the need for substantial upfront investments in physical infrastructure. This guarantees operational continuity and flexibility, which are crucial in today's ever-changing retail landscape.

### Tailored for retail operations

Vultr's global cloud infrastructure and NVIDIA's advanced technology, including NVIDIA AI Enterprise, are designed to effectively tackle the challenges related to retail management – including customer engagement, data management, and supply chain optimization. The integration of both technologies enables businesses to establish a solid foundation for reliable, scalable, and innovative retail operations.

## Key advantages

### Vultr Kubernetes Engine

Vultr's NVIDIA GPU-accelerated Kubernetes clusters, in combination with NVIDIA AI Enterprise, provide a comprehensive suite of tools to handle complex tasks such as consumer data prediction, frictionless autonomous shopping, and optimized supply chain management.

### Immediate global availability

Vultr is available across six continents, providing retail companies with the advantage of implementing AI technology, testing, and inference capabilities instantly and anywhere they choose.

### Efficiently scale traffic volume fluctuations

Vultr's scalability and flexibility allow retailers to easily upscale or downscale on demand to accommodate fluctuating levels of traffic. This flexibility is especially beneficial for busy retail periods like Black Friday and holiday sales and leads to cost savings and improved efficiency.

### Secure and efficient storage solution for data requirements

Vultr Object Storage and Block Storage enable retail establishments to securely store their growing data, such as customer information, transaction records, and inventory data. These storage solutions offer retailers flexibility, scalability, and robust security features, ensuring for efficient data management while adhering to compliance and data protection standards.

Learn more about **Vultr's retail solutions** and **contact us** at [vultr.com](https://vultr.com) to get started.