



An AI-First Toolchain & Infrastructure for

Smart Retail

Deliver differentiated in-store experiences that delight customers with frictionless services that leverage your supply chain from end-to-end and in real time.



Build & operationalize AI models

- Simplify the use of acceleration for your ML engineers
- Accelerate complex models common to large retail environments
- Enable better decision making to build customer loyalty & retention



Performant, energy efficient solutions anywhere

- Optimize processes with more efficient use of infrastructure
- Scale up & scale out model inferencing anywhere
- Process data at the edge for instantaneous, real-time responsiveness



Empowering multi-discipline collaboration

- Benefit from HPC-caliber performance without having to understand what HPC is
- Accelerate the pace of productivity of AI-focused roles within your organization
- Enable greater collaboration across varying disciplines



Partnering to accelerate AI through GPU-powered Azure solutions and deliver real-time speed, predictability, resilience, & sustainability:

- ✓ Extremely efficient for virtually all sizes and scales of model training, plus real time and batch inferencing
- ✓ Heavily parallelized environments
- ✓ Superior choices for repeatable tasks to scale e.g., model training & inferencing tasks
- ✓ Excellent price-performance benefits
- ✓ Energy efficient



Demand Forecasting

Retailers want to increase the agility of their supply chains with faster, more reliable forecasting and optimize inventory management to ensure product readiness for same-day orders.

Fast Facts



33%

Reduction in inventory through use of a demand-driven supply chain

Retailers believe AI and ML can add significant value to their demand forecasting

73%

Benefits:

- **Deliver 50X performance improvements** for classical data analytics and AI processes at scale with an AI-first infrastructure
- Leveraging NVIDIA RAPIDS™ & GPUs, retailers can **accelerate training of their AI algorithms up to 20X** – meaning they can use more data and process it faster with greater accuracy, allowing them to react in real time to shopper trends and realize inventory cost savings at scale
- **Reduce the total cost of ownership (TCO)** for large data science operations
- Increase ROI for forecasting, **resulting in cost-savings** from reduced out-of-stock and poorly placed inventory

Autonomous checkout locations are expected to increase 4X annually in the next three years. With this, retailers can provide customers with frictionless and faster shopping experiences, while increasing revenue and margins.

Connected Store

Fast Facts



63%

Stock shortages due to fluctuating demand and regulations from the pandemic

Benefits:

- Deliver a **better and faster customer checkout experience**, reduce queue wait time
- **Reduce operational and logistical costs**, leading to expanded product margins and eventually increased revenues
- **Protect assets** i.e. the loss of inventory due to theft, shoplifting, ticket switching at self-checkout lanes, etc., costs retailers \$62 billion annually (National Retail Federation)

Consumers prefer touchless or robust self-checkout options during COVID-19

87%

How we impact your bottom line:

- ✓ **Accelerate industry innovation** with the advantage of enterprise customers + solution partners
- ✓ **Integrated & optimized platform** of hardware and software for AI apps, from edge to cloud
- ✓ **Safe, secure, & agile operations** with greater intelligence and predictability over unknown factors such as forecasting and inventory planning
- ✓ **Inventory-optimized supply chains** to eliminate stock outs and enable you to always have in stock what your customers need
- ✓ Achieve **higher speed and accuracy with better AI performance** to fuel increased revenues and reduce time to market
- ✓ **Reduce risks of theft** using deep learning models from store-captured footage and tracking customer behaviors

90% Customers say purchase decisions are influenced by online reviews

95% Shoppers use a digital device prior/during their shopping trip for product related research