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Sixish

Sixish brings the power of AI to brick and mortar to help improve their operations and profitability for competition in the internet age

Reimagining retail and restaurants with DGX Station™ A100



Retail establishments everywhere have suffered as online businesses have driven many traditional brick and mortar locations out of business. Sixish has turned the tables by enabling small retail and restaurant locations to harness the power of AI to improve their business. The AI powered tooling allows the retail establishment to better understand their business and manage & predict key metrics such as staffing and food inventory that often determine profitability.

THE DEPLOYMENT

► NVIDIA DGX STATION A100

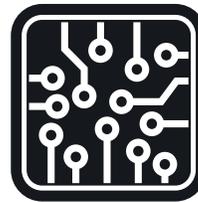
Designed for individuals or small workgroups, NVIDIA DGX Station A100 is a server-grade AI system that doesn't require data center power and cooling. Sixish uses their DGX Station A100 to perform model training local to their founder and development teams. The NVIDIA DGX Station A100 system features four NVIDIA GPUs and a 2nd Gen AMD EPYC™ processor.

► NVIDIA NGC™ CATALOG

NGC provides enterprise-grade, performance-optimized AI software that allows enterprises to build AI solutions faster. With a constant stream of validated updates to software and easy access through containers from the catalog, the Sixish team was able to prototype shortly after delivery.

► EDGE INFERENCE

The Sixish platform is trained in-house on the DGX Station A100 & pushes updates to the edge servers regularly. Businesses can utilize their existing iPads used in their POS system to run the platform, or when slightly more local horsepower is needed for realtime data needs, be shipped embedded GPU platforms.



The Sixish data platform trains an AI model based on several variables that track to retail performance. After ingesting data such as weather, season, day, and local traffic, Sixish can predict optimal key metrics such as staffing or food inventory levels for a brick and mortar business.

With these predictions, Sixish allows brick & mortar retail operations to control costs,

get staffing levels right & keep a closer eye on business operations to improve profits. The optimizations can make the difference amidst cutthroat competition.

In addition, the Sixish platform can ingest realtime data from the business to tune the recommendation engine: you can track eye movements on a restaurant menu to see what is resonating with customers or study the correlation between the atmosphere in the retail setting and customer behavior.

Sixish

An NVIDIA Inception program member, Sixish aims to revolutionize multiple domains with innovative applications of AI. Sixish brings AI capabilities to small businesses who traditionally don't have the expertise to bring advanced applications to production.

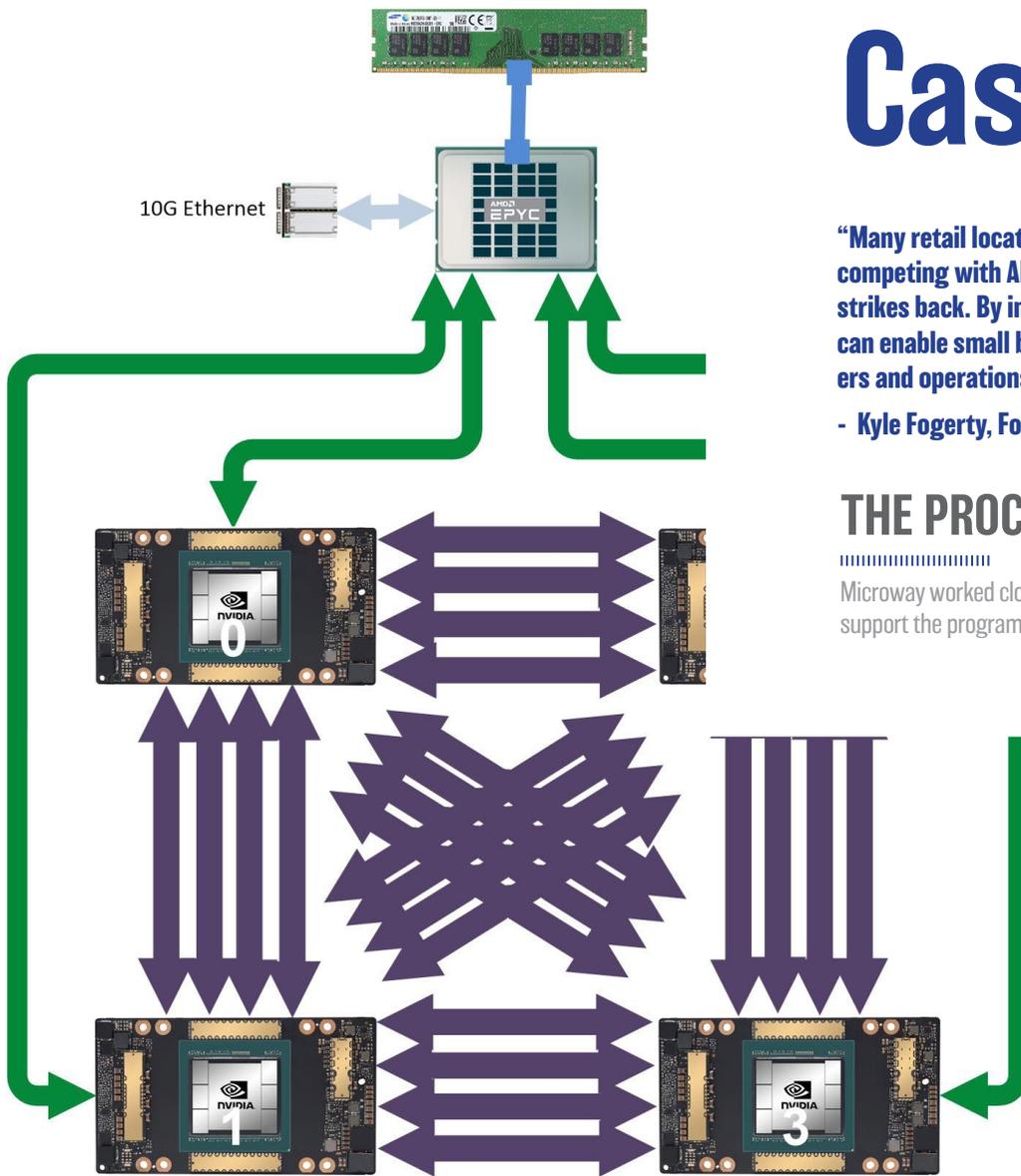
Case Study

“Many retail locations have experienced immense difficulties competing with AI driven online retail, but now brick and mortar strikes back. By implementing a hub and edge AI solution, we can enable small businesses to better understand their customers and operations to surge profitability with Sixish.”

- Kyle Fogerty, Founder and President Sixish

THE PROCESS

Microway worked closely with Sixish to tailor their centralized deployment to support the program design.



ABOUT MICROWAY

Microway designs and builds hardware solutions for the intersection of AI and HPC. These include clusters, servers, quiet workstations designed for bleeding-edge computational performance. Microway also delivers the data-planes that keep up with these advanced workloads—with a complete array of storage and network offerings.

Since 1982, customers have trusted Microway to design and deliver them unique and superior hardware—enabling them to remain at the forefront of supercomputing and solve the world’s toughest challenges.

Microway’s strategic partners include NVIDIA, AMD, DDN, and NetApp. Classified as a small business, woman owned and operated, Microway’s CSA Schedule is GS-35F-0431N.



- ▶ Sixish’s founders proposed a number of innovative AI applications, earning membership in NVIDIA’s Inception Program.
- ▶ The Sixish team experimented with cloud GPU instances, but they found them cost-prohibitive to deploy for long training periods and the wait for datasets to upload too lengthy to tolerate. A need for a new dedicated hardware resource was born.
- ▶ After experimenting with other systems, the Sixish team consulted with NVIDIA on their requirements. Together, they matched their needs to an NVIDIA DCX Station A100 configuration delivered by Microway.
- ▶ With the new DCX Station A100 the Sixish team began extended work on AI training. Due to the DCX Station A100’s easy to deploy workstation design, the team was able to start training onsite at their office space and avoid building a specialized datacenter.
- ▶ Eager to bring their techniques to market, the Sixish team applied their skills to new retail and restaurant markets. Prototype implementations were brought to restaurants partners for further development.
- ▶ The Sixish team built out new web interfaces to assist their restaurant partners. With the power of AI, the Sixish platform is evolving every day.