



CASE STUDY

Hitachi Enables Real Time Analytics and Data Lake Platform for Manufacturing

Challenge

Manufacturing Quality Affected by Inefficient IT

A global manufacturer was struggling to improve its manufacturing process. It had previously invested in costly storage and compute to improve the defect detection process yet wasn't able to implement any significant improvements. They were also dealing with massive amounts of streaming IoT and image data that need to be collected and analyzed for machine calibration. Simply, the customer's current IT system was not able to handle the company's manufacturing needs.

Solution

Hitachi Enables Modern AI Powered Manufacturing Process

The solution consisted of a combination of Hitachi Content Software for File & Hitachi Content Platform (HCP) that was able to meet all the needs for archive, tiering, and performance. Furthermore, the capabilities were able to meet customer's requirements and stay within budget.

Hitachi was able to demonstrate modern use cases, in this case a modern AI and computer vision application running on our platform. The customer's system is integrated with SQream for GPU based analytics, and is currently highly optimized for GPU enabled workloads.

Outcome

Lower Cost, Less Waste, Higher Quality Products

Hitachi Vantara created a unique solution to address the challenge of growing data within the enterprise, and the alleviating the difficulty organizations face in analyzing the full scope their data to achieve accurate business insights.

Hitachi Content Software for File integrated with SQream's data acceleration platform is currently helping this manufacturer enable AI driven anomaly detection. Using the integrated solution, the manufacturer is now able to ingest and continually analyze a multi petabyte-scale database composed of manufacturing machine sensor events, ingested to thousands of tables.

"This joint offering with our partner Hitachi Vantara accelerates Total Time to Insights (TTTI) and turns data into business value with unprecedented cost-effectiveness, providing great potential for our common customers."

Benny Yehezkel, CRO, SQream

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INDUSTRY

Manufacturing

SOLUTIONS

Modernize the Digital Core:
Infrastructure Modernization

HARDWARE

Hitachi Content Software for File and HCP for Cloudscale

SOFTWARE

Hitachi Content Software for File, HCP for Cloudscale, and 3rd Party ISV

SERVICES

Planning, design, implementation, from Hitachi Vantara

Challenge

- Customer needed a real time analytics and data lake platform to support its manufacturing improvement process. Customer's existing system could not meet current and future needs.

Solution

- Alleviate storage and data pipeline bottlenecks that prevented the customer from implementing its manufacturing improvement process.

Outcomes

- An AI computer vision powered QA process for display manufacturing that was not possible with previous system.
- System now captures and analyzes multiple image feeds to detect defects anywhere on the assembly line.
- The system records and analyzes multiple IoT sensor data streams along the entire manufacturing process for calibration needs.

