

TensorIoT Manufacturing Practice



Overview

TensorIoT works with customers across the manufacturing sector, including both discrete and process manufacturing, from smaller multi-site industrial machine shops all the way up to Fortune 500 companies such as consumer packaged goods providers and global automakers. Regardless of the specific market segment, manufacturing organizations are seeking ways to improve efficiency, whether by generating increased output while maintaining quality and without increasing labor or capital costs, or simply by generating the same output with higher quality and fewer resources.

TensorIoT works with industrial companies undertaking digital transformation of the entire end-to-end manufacturing process as well as those seeking purpose-specific solutions. For example, companies have turned to TensorIoT for solutions such as using IoT to increase observability of production operations as well as using machine learning to implement predictive maintenance and reduce unplanned downtime. And, by combining computer vision with artificial intelligence, TensorIoT can provide solutions to spot defects and provide feedback on changes in machine operations to further reduce defects from being produced. TensorIoT also provides guidance on the integration of OT and IT environments through application modernization programs and other offerings.

Customer References



Reliance Steel

To keep operations running smoothly, this Fortune 500 company worked with TensorIoT to deploy sensor hardware on older equipment to determine asset health and identify specific assets for predictive maintenance, reducing downtime and improving operational efficiency.

Read the case study:

<https://aws.amazon.com/blogs/apn/bringing-intelligence-to-industrial-manufacturing-through-aws-iot-and-machine-learning/>



Garland

For this manufacturer with multiple divisions, SmartInsights from TensorIoT was the perfect fit to liberate telemetry from production equipment and provide visual analysis leading to a 15% reduction in energy use and a 17% increase in throughput.

Read the case study:

<https://www.tensoriot.com/case-study/garland>



About TensorIoT

TensorIoT provides commercial customers with innovative products, solutions, and consulting to deliver business value from IoT, data, and machine learning technology.

TensorIoT is an AWS Advanced Consulting Partner and has achieved the AWS IoT Competency, AWS Machine Learning Competency, AWS Machine Learning Operations Competency, AWS Applied-AI Competency, AWS Industrial Software Competency, and several other competency designations. The company also has multiple AWS Service Delivery credentials for AWS services.

Founded by a former AWS employee, TensorIoT has delivered successful projects to clients from startups to Fortune 50 companies through its offices in North America, Europe, and Asia.

TensorIoT is customer obsessed and the company's global team has adopted the AWS leadership principles as their own. With deep experience delivering complete end-to-end solutions from edge devices to end users in IoT, and from data engineering to automated pipelines in ML, the TensorIoT team of AWS certified architects and developers accelerates customers' realization of their technology and business goals.

AWS Marketplace Solutions

To learn more, contact your AWS sales executive, email us at contact@tensoriot.com or visit <https://www.tensoriot.com>.

To see the full list of TensorIoT solutions, visit <https://aws.amazon.com/marketplace/search/results?searchTerms=tensoriot>.

Offering	Description
Digital Transformation Guidance	Improve manufacturing operational efficiency, innovate faster, and make data-driven decisions by embracing digital transformation to incorporate the latest cloud and edge technology, with expert guidance from TensorIoT on your journey.
Smart Factory Assessment	With expert guidance, understand your ability to transition to a smart factory setup and prepare for future projects to incorporate the latest IoT and ML technology into your production flow.
SmartInsights for Manufacturing	Gather machine data to increase situational awareness, gain actionable insight, and make more confident operational decisions. Customize to your needs and add ML-backed insights at any time.
Asset Monitoring with Anomaly Detection	Using asset telemetry and machine learning, identify changes in equipment operation that could lead to out-of-spec production, unplanned downtime, increased resource use, and other efficiency losses.
Enhanced Forecasting with ML	Improve speed and accuracy of forecasting demand, supply, production and more, and improve results over time with machine learning.
User Experience Design Consulting	Build compelling experiences from shop floor to top floor by tapping expert guidance to define the right approach and roadmap based on the needs of your workers, managers, and executives.

