WHITE PAPER

Is Machine Learning useful in Manufacturing?

BRIDGE AUTOMATION

More than buzzwords: The future of manufacturing and automation is here.

Negotiating modern IT (Information Technology) with OT (Operational Technology) is an important aspect of industrial automation. By integrating aspects of these two technologies, you can take advantage of the data collected by OT and use this data to automate processes, increase efficiency, and reduce costs. Use this data to optimize production, monitor the performance of the system, and control the environment around the machinery. This helps to reduce downtime, improve quality, and increase overall productivity. Additionally, building a unified IT/OT strategy can provide better visibility and control over operations, allowing you to identify and address any issues before they become a problem. Ultimately, this will help your company make the most of industrial automation, resulting in increased efficiency, increased visibility, cost savings, and improved operational performance.

"WHAT CAN YOU DO FOR MY COMPANY?"

Bridge Automation can leverage machine learning and artificial intelligence to optimize your manufacturing facility in several ways. Machine learning and AI can help to aggregate data from both business intelligence silos and sensor data silos. This data can be used to provide insights into facility operations, helping you to identify and address inefficiencies. Additionally, AI can be used to automate certain operational processes, such as forecasting, predictive maintenance, and quality control. With these solutions, our experts can help to optimize your facility and provide data-driven insights to help you improve your processes.
Bridge Automation solutions are platform-agnostic, right-sized for your application, and built to withstand evolving technologies and client priorities.

"BUT MY OT DATA IS COMPLETELY ISOLATED FOR SECURITY PURPOSES"

Bridge Automation respects the lengths taken to secure your machines. That is why we work with your current infrastructure and adapt our solutions custom to your needs. Want to keep your analytics and AI completely on-prem? Great! Want to transform your data silos into one centralized storage space in the cloud? Even better! We want to give you the opportunity to take advantage of the opportunities you don't even know you have, and not lock you into an entire solution toolkit.

"PREDICTIVE MAINTENANCE TYPICALLY REDUCED MACHINE DOWNTIME BY 30-50% AND INCREASES MACHINE LIFE BY 20-40%"

-MCKINSEY AND COMPANY

Manufacturers can use big data to optimize the performance of vital assets by anticipating potential failure. Predictive maintenance systems compile historical information (both machine-generated and non-machine-generated, structured and unstructured) to provide insights that cannot be seen with traditional methods. With the help of sophisticated analytics, organizations can identify the conditions that often lead to a machine's breakdown and monitor input parameters to take preventive actions before breakdowns occur.

TAKE ADVANTAGE OF DATA YOU ALREADY HAVE WITH:

- Demand Forecasting
- Supply Chain Optimization
- Quality Control
- Root Cause Analysis
- Predictive Maintenance
- Digital Twins

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