

Artificial Intelligence in Indian Manufacturing Industry 2020

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Abstracts

Manufacturing companies in India have been digitizing their plants with advanced process controls, analytics, and AI-based decision support solutions. Several Indian manufacturing companies have been investing in artificial intelligence AI-based factory automation solutions to improve product quality and design, reduce labor costs, minimize manufacturing cycles, and monitor real-time condition of machines. To ensure efficiency and productivity, companies such as Blue Star Ltd., TVS Motor Company Ltd., JK Tyre & Industries Ltd., and Asian Paints Ltd. have deployed AI-based solutions and analytics platforms across their manufacturing units in India.

Market trends:

The automated manufacturing machines use AI solutions to identify faults in the manufacturing process and notify the production team to eliminate product quality issues. Manufacturing companies are also installing AI-enabled predictive maintenance systems that are capable of self-monitoring and reporting malfunctions in real time. IBM has developed cognitive assistants using its cognitive computing platform Watson, for manufacturers to reduce errors and improve product quality. Similarly, Qualitas Technologies has developed the Eagle Eye Inspection System, which uses an AI-based vision controller to check the quality of products.

Indian manufacturers are deploying collaborative robots powered by analytics and AI. These robots are capable of handling additional cognitive tasks and making independent decisions based on real-time data. Blue Star Ltd. is using AI-enabled collaborative robots (offered by Universal Robots A/S) to optimize the task of copper tube expansion and minimize stress risks associated with it.

Market insights:

Over the past few years, venture capital firms and global companies like GVFL Ltd., Bosch and Hitachi High-Tech Solutions Corporation have invested in Indian AI start-ups serving the manufacturing industry. These investment activities have supported the development of AI-based solutions, as a result, propelling the growth of AI in the Indian manufacturing industry.

Indian manufacturers are continuously harnessing the power of Industrial Internet of Things (IIoT) by incorporating intelligent controls, sensors and smart switches in their production units. Use of IIoT, together with AI and data analytics, is expected to benefit the manufacturing industry by providing real-time insights for faster decision making.

Companies covered

Abee Research Labs Pvt. Ltd.

EroNkan Technologies Pvt. Ltd.

Flutura Business Solutions Pvt. Ltd.

LivNSense Technologies Pvt. Ltd.

Universal Robots (India) Pvt. Ltd.

Altizon Systems Pvt. Ltd.

IBM India Pvt. Ltd.

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