



AI Use Case of Semiconductor Industry
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Artificial intelligence (AI) and Machine learning (ML) algorithms and applications are giving manufactures both challenges and opportunities for enhancements in complex manufacturing environments, such as those found in the semiconductor industry, production process typically include several stages and can span many weeks to months.

We look at use cases which show the effect that artificial intelligence (AI) and machine learning (ML) are having on manufacturing and more specifically dynamic fault detection, defect pattern recognition and root cause analysis in the semiconductor industry. Furthermore they will support for data behavior analysis which is advancement for knowledge based data analysis.

These advanced analytic capabilities allow semiconductor companies to can analyze and find defects and root causes automatically and be used interchangeably at several steps in the manufacturing data analysis process.