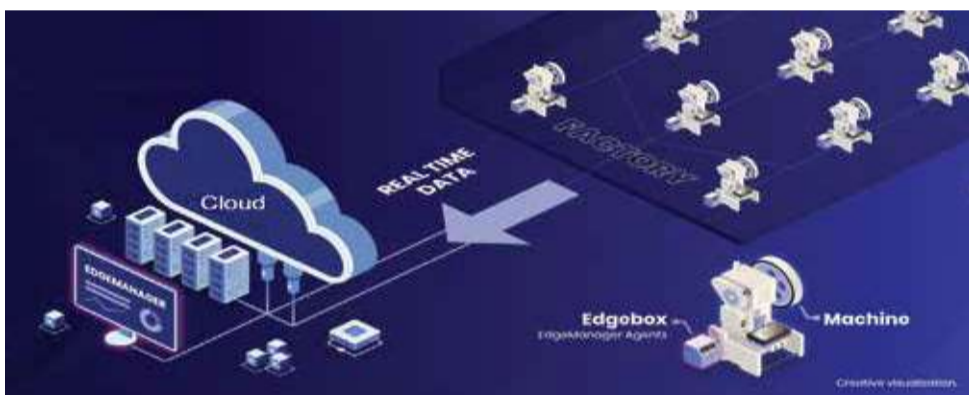


Predictive Maintenance - Industry 4.0

Major revolution in maintenance has emerged through the integration of Artificial Intelligence (AI) and the Internet of Things (IoT), ushering in the era of AI/IoT-Guided Predictive Maintenance. This innovative approach leverages predictive analytical algorithms and real-time data to proactively identify and mitigate potential concerns, thereby preventing downtime and ensuring uninterrupted operations.



- Utilizing wireless acceleration sensors, Murata's predictive maintenance solution captures vibration signatures, which are then sent to the cloud for feature extraction and fault identification using sophisticated predictive algorithms.

Solution Design

- 1** Early prediction of failure (Proactive)
- 2** Battery-operated (3 years battery life*)
- 3** Wide Frequency Range (0-10kHz)
- 4** Advanced AI/ML algorithm inspired from Quantum technologies
- 5** Highly customizable design

Solution Objectives

- 1** Proactive maintenance
- 2** Lower maintenance cost
- 3** Increased availability and visibility
- 4** Better profits

Possible Applications/Use Cases

Manufacturing Industry
Pulp and Paper
Power Generation
Steel Production Plants
Oil and Gas Refineries

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