



A leading automobile manufacturer reduced unplanned downtime by 30% and improved product quality

Background

A leading automobile manufacturer, struggled with unplanned downtime, inconsistent product quality, and performance losses in their production lines.

Objectives

- ◆ Implement predictive maintenance
- ◆ Improve product quality
- ◆ Optimize machine performance
- ◆ Integrate data for better decision-making

Solution

Predictive Maintenance: Reduced unplanned downtime by 30%.

Challenge

- ◆ Unpredictable machinery breakdowns
- ◆ Quality variations leading to rework and scrap
- ◆ Suboptimal machine performance
- ◆ Data silos hindering holistic analysis

Approach

Data Integration: Deployed IoT sensors and integrated data from ERP and MES systems.

Predictive Maintenance: Developed machine learning models for early failure detection and AI-driven maintenance scheduling.

Quality Control: Used AI for real-time quality monitoring and adjustments.

Performance Optimization: Applied analytics to optimize machine settings.

Unified Data Platform: Created a centralized data repository and real-time dashboards.

About Straive

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