



Predicting Failures Before They Happen

Detecting issues early to drive proactive upkeep with Rocket® Vertica®



CHALLENGE

Shifting from reactive to predictive maintenance

This global healthcare technology company manages a vast equipment fleet generating **millions of events and readings daily**. Despite the data volume, legacy systems weren't built for prediction, leaving valuable insights untapped and disruptions costly.

- **Untapped data**

Massive volumes of operational data were captured over time but rarely leveraged for predictive purposes, leaving critical insights buried and opportunities to prevent disruptions missed.

- **Reactive model**

Maintenance teams responded to failures as they happened rather than preventing them. Without predictive capabilities, disruptions were inevitable, and costly to resolve.

- **Fragmented sources**

Disparate systems made it difficult to unify historical and real-time information, preventing teams from seeing the complete operational picture.

SOLUTION

Advancing predictive maintenance with Rocket® Vertica®

01 Unified data platform

Rocket® Vertica® consolidated hundreds of data sources into one petabyte-scale analytics foundation.

02 AI-driven detection

Machine learning models spot patterns and anomalies early, anticipating failures before they occur.

03 Proactive scheduling

Modeled failure scenarios let teams plan maintenance during optimal windows, minimizing disruption.

04 Global scalability

The platform flexes to meet regional data governance needs across regulated markets.

RESULTS

Driving measurable operational success

Reduced downtime

Continuous monitoring drove a significant drop in equipment downtime and disruptions.

Half resolved remotely

About half of all maintenance cases are diagnosed and resolved without an on-site visit.

Strong first-time fix rate

Most on-site issues are resolved on the very first attempt.