



Hi-Tech

Predictive Maintenance to prevent product breakdown for Technology Giant

30% reduction in maintenance cost



Industry
Technology



Function
Maintenance



Data Used

1. Printers and Presses Metadata
2. Usage data
3. Sensor data
4. Network data



Tech Stack

1. SQL
2. Python
3. Tableau

Who Is The Client?

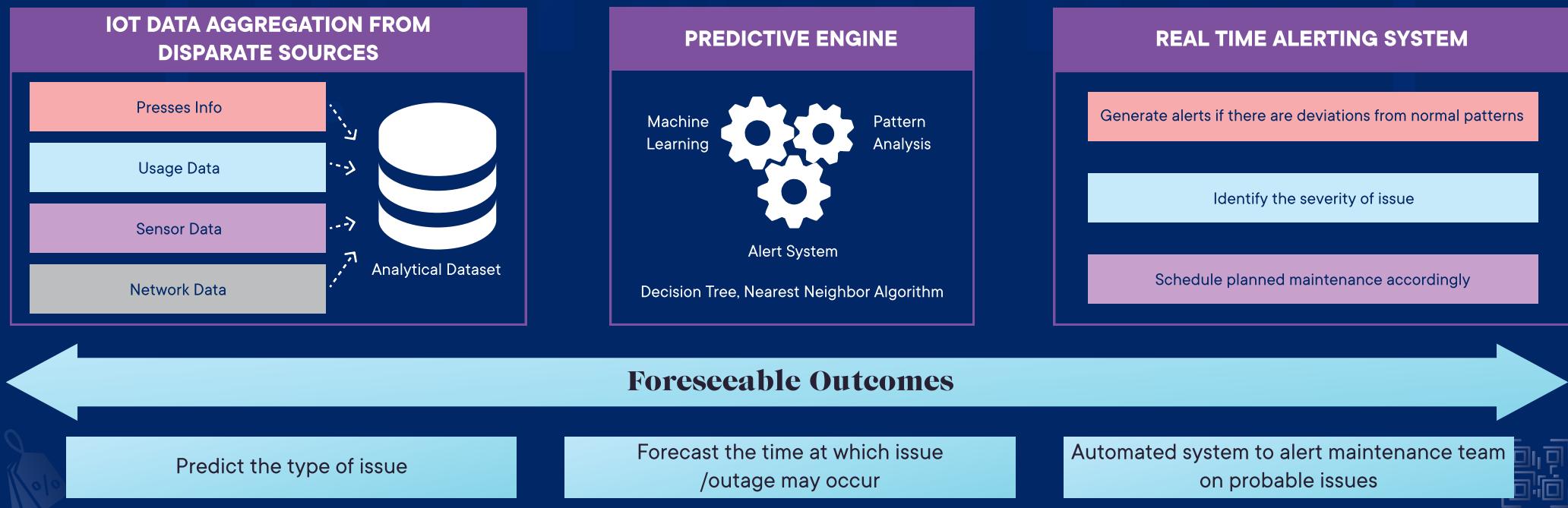
The client is one of the leading technology giants with extensive business operations across various geographical locations globally. By the following decade, their market continued to grow and is projected to reach a next milestone with an intent to provide improved customer productivity and satisfaction.



How Did We Solve The Problem?

It is complex for an administrator to scan across the network looking for misconfigured or infected devices. To rectify the outages of printers and presses, Affine formed a team of AI and Data engineers' specialists. The dedicated team examined various aspects of the existing workflow and functionality to identify the bottlenecks and developed Machine Learning algorithms to forecast potential issues in printers and presses based on data collated from different sensors, metadata, usage data, and network data.

A pattern recognition algorithm was developed to evaluate disparate data sources & track printer's health based on change in normal behavior and flag issues



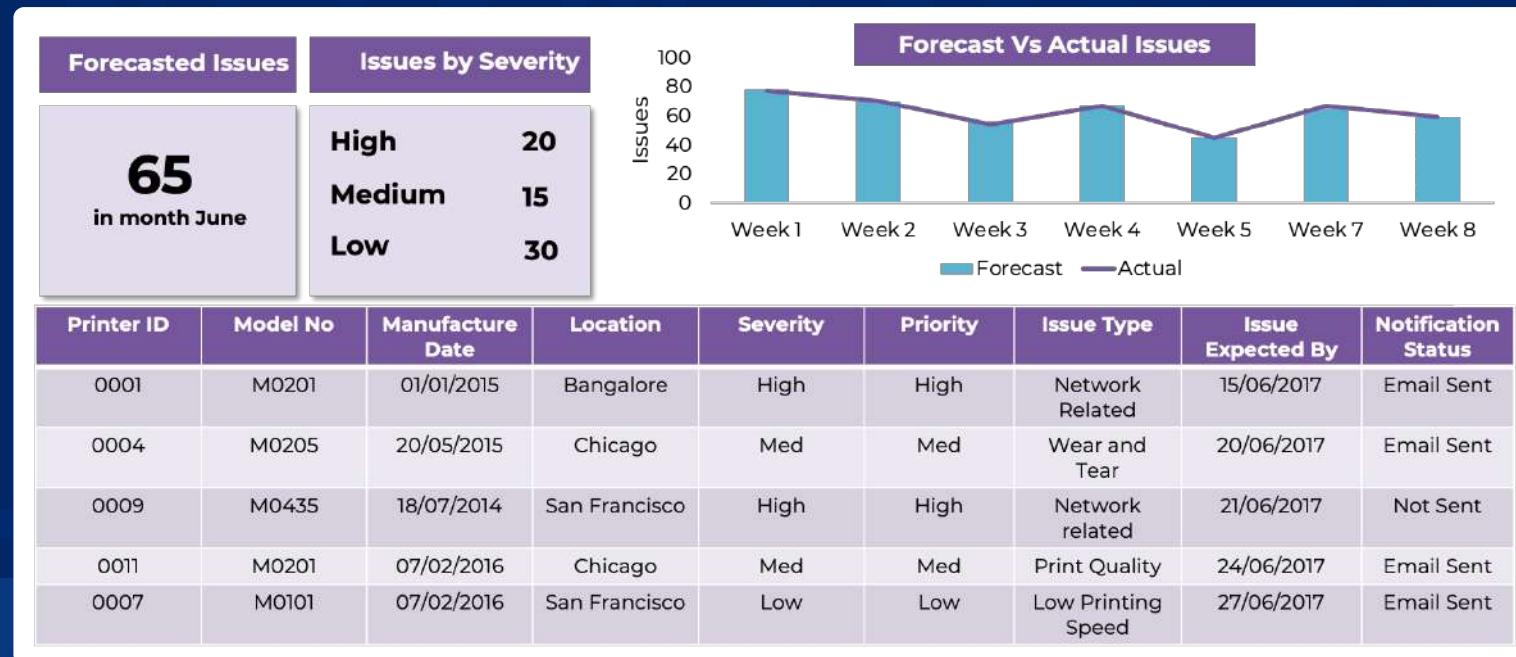
Business Quandary

The client was investing a large amount of manual effort to identify various issues involved in printers and presses' maintenance. The client wanted Affine to create an automated advanced AI solution that would notify the maintenance team regarding potential malformations, outages of printers and presses to reduce MRO costs and eventually improves customer productivity and satisfaction.



The Pay Off

The supply of defect-free, high-quality products is an essential factor for the long-term competitiveness of businesses. However, it is not easy to maintain it without any steep AI advancement. Affine deployed the Pattern Recognition Algorithm that evaluated the disparate data sources and tracked the printers' health based on the changes than a normal behavior and flagged the issues. The output was presented in the form of a dashboard that helped the client to examine the foreseeable issues by the grades of severity and also generate alerts to preemptively plan maintenance activities.



Business Benefits

11%

OEE

31%

Maintenance Cost

13%

Spare Parts Inventory

10%

Manpower

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