

The logo for Infoworks, with 'Info' in red and 'works' in white, set against a dark background with a network of white dots and lines.

Infoworks

CASE STUDY

Healthcare Company Increases Revenue While Reducing Data Operational Costs with Modern Enterprise Data Operations and Orchestration System

COMPANY OVERVIEW

One of the world's largest healthcare workforce management companies helps organizations in the industry improve patient outcomes by providing a variety of workforce management and staffing solutions.



The Challenge

The healthcare company's business model revolves around fulfilling resource demands for customers, including recruitment and staffing. They want to better leverage data to accurately forecast bookings, candidate requirements, utilization and revenue — and meet those demands faster than their rivals at a more competitive price. The company faces challenges effectively monitoring this dynamic process and identifying corrective actions to streamline and enhance outcomes.

To empower their data analytics and data science teams, the healthcare company must build

highly performant data workflows while keeping infrastructure costs under control. Limitations in their existing data ecosystem made it difficult to meet service-level agreements (SLAs) or prioritize SLAs with the greatest business impact at the individual use case level. The company's data operations budget was also growing out of control due to the total cost of ownership (TCO) of their Apache Hadoop-based analytics infrastructure. The company found their existing infrastructure too costly to staff, maintain and adapt to ever-changing business needs.

The Solution

The healthcare company leveraged Infoworks' DataFoundry solution to migrate one of their Hadoop workloads — consisting of 42 source tables and 24 data pipelines — to Databricks Unified Analytics Platform **in less than seven hours**. If these pipelines had been built using legacy tools instead of DataFoundry, it would have taken the engineers weeks or months to re-develop, re-factor and re-optimize their pipelines for use in Databricks. With this migration, the company was able to improve query performance of data in Delta Lake without needing to export prepared data sets to other

systems. Data teams can now scale workloads independently for concurrent use as well as to meet business SLAs. With the combined power of Infoworks and Databricks, data ingestion and data lake management is **10 times faster**.

Infoworks with Databricks gives the healthcare company the ability to control costs down to the individual data workflow. Automated use of on-demand and elastic clusters dramatically reduces costs and increases query performance. Now, the healthcare company can balance cost and

performance at any level: by individual table or group, at the pipeline level or at the use-case level.

With Infoworks and Databricks, the healthcare company now has a solution that regularly sources system data and leverages complex algorithms to forecast resource demand, rates and utilization. Infoworks also resolved issues involving rate sheets being applied incorrectly and skewed movement due to deleted shift and placement transactions. These legacy methods of calculation resulted in the variance of a million dollars in revenue — anomalies that Infoworks was able to quickly identify and address.

38%
COST REDUCTION

The infographic features a large, light gray circle containing the text '38%' in a large, dark red font, with 'COST REDUCTION' in a smaller, bold, black font below it. The background of the infographic is a network of gray nodes connected by thin lines, with some nodes highlighted in blue.

25%
IMPROVEMENT
IN QUERY
PERFORMANCE

The infographic features a large, light gray circle containing the text '25%' in a large, dark red font, with 'IMPROVEMENT IN QUERY PERFORMANCE' in a smaller, bold, black font below it. The background of the infographic is a network of gray nodes connected by thin lines, with some nodes highlighted in blue.

The Impact

Thus far, the healthcare company has seen a **38% cost reduction** due to their now on-demand Databricks infrastructure. They've also experienced a **25% improvement in query performance**. These benefits allow the company to **meet their SLA requirements** without sacrificing business value. The company is also meeting its TCO goals thanks to a simplified infrastructure and the ability to automatically leverage on-demand clusters, which have resulted in lower administrative and operations overhead. In addition, the company has more accurate by-the-hour forecasting of demand, placements and revenue that enables them to serve customers more effectively and efficiently drive increased revenue.

About Infoworks

Infoworks offers the most comprehensive and automated Enterprise Data Operations and Orchestration (EDO2) system. It is the only EDO2 system built to automate and accelerate deployment and orchestration of analytics projects at scale, in cloud, hybrid, multi-cloud, and premise-based environments. Through deep automation and a code-free environment, Infoworks empowers organizations to rapidly consolidate and organize enterprise data, create analytics workflows and deploy projects to production within days – dramatically increasing business agility and accelerating time-to-value. Infoworks counts some of the world's largest financial, retail, technology, healthcare, oil & gas, and manufacturing companies as its customers. To learn more, please visit infoworks.io.

ENTERPRISE DATA OPERATIONS AND ORCHESTRATION FOR BUSINESS TRANSFORMATION

sales@infoworks.io | (650) 391-9306 | infoworks.io