Healthcare

Modern Case Study

Major American Healthcare
Firm enriched their data quality
Deploying Modern's DataOS

Industry

Healthcare

Headquarters

Oakland, CA

Objective

Improve data quality and work faster on data to achieve accurate business insights.

DataOS Key Benefits

- Created a holistic and unified view of customer's data.
- Data profiled and quality checked based on configurable rules for consistency, uniqueness etc.
- Reduced the time from data to accurate business insights by two-thirds, thanks to better quality data.
- Better data meant better decisions, faster.

The Customer

Our customer is a major American healthcare provider with operations in nine states in the US with more 39 hospitals, 700 medical offices, and about 80,000 physicians and nurses.

The Challenge

The healthcare industry is volatile. Healthcare facilities must manage, store, and access a large influx of data created by changing compliance regulations, advanced treatment options, the onset of rare diseases, and a rapidly aging population.

Our customer has data coming from multiple sources, including sensors, electronic record systems and applications. Data is received in a variety of formats and at a greater volume than their data pipelines can handle. This created inconsistencies and unreliability in their data. They also operate in an extremely stringent regulatory environment, with strict requirements for data access, data retention, and secure storage of Protected Health Information. They needed a data management tool that could handle all their data efficiently while ensuring high data quality and regulatory compliance.

A Unified View of Complex Data

We completed an end-to-end deployment of DataOS on the customer's cloud within six weeks. We connected DataOS to all required data sources and applications, and ingested data from all the available data sources. We worked with the client to set up filtering and masking criteria to safeguard PHI. We automated data retention and cleanup, removing duplicate, fragmented and out-of-date information.

We also profiled their data based on the data validation rules they defined, instantly demonstrating the quality of their data based on its completeness, consistency, and other parameters. We helped them adjust rapidly changing patient data and handle time-sensitive data in real time.

How Our Customer Leveraged DataOS

With better data, our customer was able to make better decisions and improve their patient care. Better analytics helped them understand their doctors' activities, including success rates, time spent with patients, and the types of treatments they used. They improved their regulatory compliance. They were able to make predictions that improved their automated care recommendations to their patients, adjust staffing levels, focus their marketing, and anticipate emerging healthcare issues.

The Modern Solution

The Modern Data Company deployed DataOS in six weeks, ingesting different types of data and providing features to enrich and enhance data quality.

The Benefits

DataOS helped our customer to:

- Handle large volumes of data from diverse data sources and applications.
- Evaluate data quality by predefining data quality rules with respect to accuracy, completeness, consistency, relevance and uniqueness.
- Act on poor data and take necessary steps to enrich it and improve the data quality.
- Improved data quality means 3x faster insights.

About DataOS®

DataOS is an operating system that consists of a set of primitives, services and modules that are interoperable and composable. These building blocks enable organizations to compose various data architectures and dramatically reduce integrations. Enterprises can have the same data-driven decision-making experience akin to data-first tech companies in days and weeks instead of months and years.

About The Modern Data Company

Founded in 2018, The Modern Data Company began with the realization that enterprise-wide data access has been siloed. Data engineers and database administrators have been the longstanding data gatekeepers who funneled data to analysts and data scientists. We aim to change that by freeing enterprises to make better data driven decisions by democratizing access to data. When all employees, irrespective of their technical skills or background, can easily explore and analyze enterprise data, then both productivity and market expansion are realized at a faster pace.

TheModern DataCompany

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