

# DATA-DRIVEN CARE AT SCALE

TRANSFORMING UNSTRUCTURED PATIENT DATA FOR WELLBE SENIOR MEDICAL

THE CUSTOMER

## Wellbe: Pioneering In-home Care

WellBe Senior Medical leads the charge in in-home care for patients with complex, chronic health conditions. By uniting patients, caregivers, and healthcare providers, they deliver holistic care fully covered by health plans, ensuring accessibility and quality without added costs.



## THE CHALLENGE: A DATA-DRIVEN BOTTLENECK

WellBe faced an overwhelming challenge in processing massive patient diagnosis data from PDFs and XML files, some spanning 250,000+ pages. Their legacy system struggled with:



**MANUAL INEFFICIENCIES** causing delays.



**HIGH COSTS** and complexity with third-party tools.



**LIMITED SCALABILITY** as files over 500 MB hindered growth.



**FRAGMENTED INSIGHTS** slowing down critical decision-making.

## ENGINEERING A HIGH-PERFORMANCE DATA BACKBONE

A seamless, automated, and scalable data ecosystem.

Tredence and WellBe joined forces to overhaul data processing with a powerful, future-ready system. The solution focused on four key pillars:



### SCALABLE DATA FOUNDATION

Unlocking speed and efficiency with Snowflake and Snowpark.

We leveraged Snowpark in Snowflake to create a parallel processing powerhouse, handling vast amounts of unstructured data with unmatched speed and efficiency.



### ONE-CLICK INTELLIGENCE

Eliminating complexity with real-time visualization.

A Streamlit-powered dashboard gave WellBe's teams the ability to process, analyze, and visualize data in a single click, eliminating dependency on expensive third-party visualization tools.



### COST-OPTIMIZED PERFORMANCE

Maximizing efficiency while minimizing spend.

By running multiple POCs, we fine-tuned the balance between performance and cost, bringing compute costs down to less than \$1 per 125,000 pages.



### FUTURE-READY DATA ECOSYSTEM

Seamless scalability and integration for long-term success.

The solution streamlined redundant processes, eliminated scalability bottlenecks, and ensured WellBe was ready for future data demands with a robust, automated architecture.

## CLIENT IMPACT

### 95% FASTER PROCESSING

Analyzed ~125,000 PDF pages per minute with lightning-fast automation.

### SCALABILITY AT SCALE

Legacy 500MB file limitations changed to process any volume, any time.

### SIGNIFICANT COST SAVINGS

Optimized Snowpark and Streamlit dashboards slashed operational costs.

### 90% REDUCTION IN MANUAL EFFORT

Freed up resources to focus on patient care, not data grunt work.

### EMPOWERED DECISION-MAKING

Business users and non-technical teams gained instant access to critical insights.

WellBe now navigates unstructured patient data with precision and speed, turning complexity into clarity—without breaking the bank.

Tredence is a global data science solutions provider focused on solving the last-mile problem in AI.