TREDENCE

Beyond Possible



Architects of Data & AI Modernization for Health & Life Sciences

© 2026 Tredence Inc. All Rights Reserved.

About Tredence

Tredence at a Glance

- **Founded:** 2013 | HQ: San Jose | 4200+ Employees | 12 Offices | 5 Countries
- **Founders:** Shub Bhowmick (CEO), Shashank Dubey (CRO), Sumit Mehra (CTO)
- **Strategic AI partner:** 50+ Fortune 500 companies across multiple verticals

Why Tredence?

- **Deep domain expertise:** Steeped in industry and domain processes, our teams deliver data and AI solutions that deliver outsized business impact.
- **Speeding time to value with AI accelerators:** Offering 150+ ready-to-deploy accelerators that clients can adopt as their own, reducing time to value by 50%.
- **Deep investment in innovation:** Investing 10% of our revenue in developing advanced AI and generative AI (GenAI) capabilities, so that we can help our clients scale new solutions across their businesses.
- **Last-mile AI approach:** Combining expertise, innovation, and partnerships to tackle data and AI challenges—proven by a 94% NPS across 1,000+ projects.

Industry Recognitions



© 2026 Tredence Inc. All Rights Reserved.

Healthcare & Life Sciences Overview

Tredence is specialized Data and AI solutions provider with deep expertise in the Healthcare and Life Sciences. We help our customers accelerate their digital transformation initiatives to unlock value of their data and drive analytical workflows

Healthcare



Jumpstart value-based care analytics with Tredence's prebuilt **Unified Healthcare Data Model** and machine learning framework.



Leverage domain-centric accelerators covering key domains—**Population Health, Clinical Operations, Quality of Care, Financials, and Revenue Cycle Management (RCM).**



Tap into a robust library of prebuilt ML models for predictive analytics across critical use cases such as **hospital readmissions, chronic condition onset, patient churn, and workforce demand planning.**



Automate decision-making with Agentic AI across high-impact workflows including **Patient-provider Conversation Summarization, Prior Authorization Adjudication, and Care Plan Management.**



Modernize faster with our "Migrate to Modernize" approach—seamlessly transitioning legacy systems to scalable, cloud-native healthcare data platforms.

Life Sciences



Modernize manufacturing and supply chain operations with advanced Data and AI capabilities tailored for agility, efficiency, and resilience.



Gain 360° visibility across production and supply chains with real-time monitoring, asset performance insights, and intelligent process optimization.



Power critical operations with **Agentic AI workflows for demand forecasting, temperature monitoring, inventory visibility, waste reduction, and root cause analysis.**



Accelerate digital transformation with the Tredence Smart Manufacturing Command Center—boosting equipment effectiveness, reducing energy use, and deploying AI solutions 50% faster with scalable architecture and pre-built use cases.



Enhance key opinion leader engagement and decision-making with advanced Data and AI capabilities designed to extract actionable insights from vast unstructured data assets.

© 2026 Tredence Inc. All Rights Reserved.

Transforming Health & Life Sciences with AI & Data

We've delivered 140+ AI-powered use cases—Here's a curated selection of transformative success stories that showcase real-world impact and business growth.

EXPLORE THE POSSIBILITIES!

© 2026 Tredence Inc. All Rights Reserved.

TREDENCE
Beyond Possible

Better Together





Optimizing asset performance optimization and root cause analysis for a global biopharma

Enhancing visibility into supply chain and manufacturing operations to drive efficiency and reduce downtime

Challenge

As a leading global pharmaceutical company needed a unified, intelligent view of its manufacturing assets and performance to maintain product quality as it grew, but faced the following challenges:

- Limited asset visibility preventing real-time monitoring and proactive maintenance
- High maintenance costs driven by unplanned downtime and reactive operations
- Production inefficiencies due to delayed root cause analysis and throughput loss

Solution

Tredence developed a comprehensive solution using Databricks Lakehouse and Smart Manufacturing Control Center:

- **Providing 360° visibility into assets:** Enabling real-time monitoring of equipment and process efficiency
- **Delivering advanced downtime analytics:** Accelerating identification of machine failures and time to resolution
- **Centralizing data intelligence:** Offering a unified view of operational metrics to enable faster decision-making

Business Impact

~7%
Reduction in asset maintenance costs

~12%
Increase in asset throughput and reduced mean time to failure

~40%
Faster data querying and root cause analysis

© 2026 Tredence Inc. All Rights Reserved.

Automating insight creation with AI, ML, and GenAI for a global biotech company

Improving key opinion leader (KOL) engagement, innovation, and regulatory compliance

Challenge

A leading biotechnology sought to extract actionable insights from its vast unstructured data wealth to enhance key opinion leader engagement and streamline decision-making.

The firm struggled with:

- **Fragmented data:** Spread across sources such as PubMed, Scopus, and CRM systems
- **Manual processes:** Used to identify patterns and generate insights about healthcare professional sentiment and relationships
- **Difficulty identifying KOLs:** With challenges mapping KOLs/HCPs and their networks, the biotech couldn't amplify product knowledge effectively

Solution

Tredence built a robust natural language processing (NLP) platform using Databricks Delta Lake, AWS advanced AI/ML methodologies; and generative AI models.

- **Automating data preparation:** Ingesting data from key sources via Snowflake and using a Databricks medallion architecture to create a streamlined pipeline
- **Enabling data processing and governance:** Extracting unstructured data using Databricks volumes, establishing data lineage and access using the Databricks Unity Catalog, and flattening datasets into insights using Python-based stopword removal, lemmatization, and embeddings
- **Deploying NLP and AI models:** Deploying JSL and LLM models to extract keywords, summarize text, and enhance searchability
- **Visualizing insights:** Developing interactive dashboards by integrating Plotly Dash with Databricks and presenting real-time insights on HCP/KOL sentiment and engagement metrics to the medical affairs team

Business Impact

280K physicians analyzed
To identify KOLs for targeted outreach

30%
Increase in new topics discovered

20X
Boost in KOL outreach

Providing strategic decision support
through simple Q&A-based interfaces to get insights from large volumes of unstructured data

© 2026 Tredence Inc. All Rights Reserved.

Agentifying batch quality review to accelerate drug release for a BioPharma leader

Building an AI-led, exception-driven quality review system to improve release speed and maintain regulatory compliance



Challenge

A global bio-pharmaceutical leader needed to modernize its Batch Quality Review process to accelerate batch release while maintaining uncompromised drug quality. Despite having a unified manufacturing data foundation, the organization faced:

- Heavy manual review of batch records, alarms, and deviations
- High volume of alerts creating alarm fatigue and slowing decision-making
- Manual SOP compliance verification increasing risk of human error

Solution

Tredence developed an Agent-assisted Batch Quality Review solution that integrates directly into existing batch release workflows and enables exception-based review.

- **Review-by-exception AI agents:** Assess batch health using historical manufacturing data and regulatory SOPs with intuitive traffic-light decision support
- **LLM-driven compliance validation:** Automates root cause analysis by comparing operator logs and deviation reports against SOP requirements
- **LLM-driven quality document digitization:** Converts paper based documents to digital records
- **Human-in-the-loop assurance:** Maintains regulatory compliance with AI-generated recommendations while reviewers retain final sign-off
- **Performance and throughput dashboards:** Provides real-time visibility into review turnaround time and process efficiency

Business Impact

~60%
reduction in batch review time (15 hours → 6 hours per batch)

~13%
increase in batch release throughput

30%
Improved compliance and product quality through exception-focused review

© 2026 Tredence Inc. All Rights Reserved.

Modernizing data and analytics for accelerated go-to-market insights for diagnostics company

Building a unified data platform to drive innovation in cell and gene therapy

Challenge

A leading diagnostics company specializing in cell and gene therapy sought to modernize its data ecosystem to support business growth and innovation.

The client's challenges included:

- No single source of data and analytics truth, creating inefficiencies and harming insight delivery
- A lack of centralized governance
- Inconsistent reporting and low data trust
- Manual, Excel-based processes prone to errors
- Siloed systems and fragmented insights that inhibited agile decision-making

Solution

Tredence designed and implemented a scalable, governed data platform with the Databricks Data Intelligence Platform, Microsoft Azure, Microsoft Dynamics 365, and Power BI:

- **Developing a strategy and roadmap:** Assessing the current state with stakeholder input, performing a gap analysis, and creating a migration strategy and implementation roadmap
- **Building a unified data platform:** Leveraging the Lakehouse architecture with a common data model
- **Establishing governance:** Implementing a central business glossary and enhancing governance with Unity Catalog
- **Streamlining data processes:** Rationalizing and simplifying ingestion, integration, and reporting tools
- **Prioritizing automation and self-service analytics:** Reducing manual dependencies

Business Impact

Faster and more accurate go-to-market insights

Reduced compute and labor costs through platform modernization

Lower technical debt, complexity, and system fragility

© 2026 Tredence Inc. All Rights Reserved.



Enterprise data modernization to enable advanced analytics for US healthcare organization

Unifying data across systems to drive responsible AI and value-based care outcomes

Challenge

One of the largest non-profit Health system in the US sought to modernize its data and analytics capabilities to drive Value based Care, Clinical Operations and Patient Engagement requirements. However, challenges included:

- Operating a complex landscape of traditional data warehouses and healthcare-specific platforms, creating data silos
- Inconsistent access and low trust in analytics outputs
- Scalability limitations with existing infrastructure
- A lack of a common data model for healthcare analytics
- No in-house expertise to lead the data transformation initiative
- Need for governance to support responsible AI and self-serve reporting

Solution

Tredence build a Cloud based Data platform and implemented advanced analytics capabilities

- **Developing a future-ready data platform:** Supporting enterprise-wide analytical needs
- **Implementing a unified data model:** Establishing Patient 360 view across his clinical data
- **Enabling analytics and reporting:** Implementing **advanced analytics framework** for different Value-based Care use cases – **Length of Stay, Patient Days, Chronic care management** (track treatment and patient education)
- **Establishing robust data governance frameworks:** Including business glossary and cataloging to support responsible AI adoption

Business Impact

40%
Overall platform cost reduction in the year 1

50%
Improvement in data size through compression and standardized data model

25%
Improvement in self-service

© 2026 Tredence Inc. All Rights Reserved.



Want to know more about us?
Please visit: www.tredence.com

© 2025 Tredence Inc. All Rights Reserved.