

# Partnership with a large biotech company on their lakehouse initiative for clinical data

## Client

A leading biotechnology company specializing in pharmaceuticals and diagnostics

## Company Size

100,000+ employees

## Location

Global

## Featured Partners



databricks

The client sought a strategic partnership to accelerate drug development, reduce risks in their clinical pipeline, and strengthen their global leadership in personalized medicine.

By implementing a robust and scalable data platform, the solution optimized the client's DataOps landscape, enhanced data processing and analytics capabilities, and significantly improved decision-making processes.



Secure Platform  
Development



Advanced Data  
Analytics  
Integration



Data Strategy



ETL Migration &  
Optimization

# The Challenge: Streamlining data operations and enhancing analytics capabilities



**Objective:** Accelerate drug development and strengthen global leadership in personalized medicine.



**Existing Issues:** Fragmented data operations and limited analytics capabilities hampered efficient drug development.



**Solution Needed:** A scalable, integrated data platform with advanced analytics and governance.



**Outcome:** Enhanced decision-making and operational efficiency, which reduced time-to-market and improved trust in their data.



The client faced challenges in streamlining their data operations and enhancing their analytics capabilities to support faster drug development and personalized medicine. They needed a scalable and robust data platform to mitigate risks in their clinical pipeline and maintain their leadership in the industry.

# The Solution: A comprehensive, secure, and GxP-validated data platform

The solution involved implementing a comprehensive data strategy and developing a secure, GxP-validated platform with advanced data integration tools. This approach enabled the client to optimize their DataOps landscape, enhance their analytics capabilities, and foster a data-driven culture. Below is an outline of the multi-phased approach and relevant workstreams:

## Phase 1: Data Strategy Assessment

Our team conducted a thorough assessment of the current data landscape to identify gaps and collaboratively plan a future-state strategy.

### Workstreams:

- Current-state assessment
- Technology gap analysis
- Future-state planning

## Phase 2: Platform Development

We developed a secure, GxP-validated platform with integrated data tools to enhance business value and support DataOps capabilities.

### Workstreams:

- Secure, DataOps-capable platform creation
- Data integration tools implementation
- GxP validation

## Phase 3: Data Architecture & Governance

To enable efficient data sharing and advanced analytics, we established a robust data architecture with governance frameworks, role-based access control (RBAC), and regulatory compliance.

### Workstreams:

- Governance framework setup
- RBAC implementation
- Regulatory compliance

## Phase 4: ETL Migration & Optimization

Our team migrated ETL processes to a new platform that enhanced data ingestion. This fostered a culture of data-driven decision-making through domain-driven data products and federated governance.

### Workstreams:

- Self-service data ingestion
- Domain-driven data products creation
- Federated governance

## Services and Technologies Used:

### Services:

- Data Strategy and Planning
- GxP-Validated Platform Development
- Data Integration and ETL Optimization
- Data Governance and Compliance
- Advanced Analytics Implementation
- Self-Service Data Ingestion Tools
- Domain-Driven Data Product Development

### Technologies:

- Databricks
- AWS
- Collibra
- FiveTran
- Spotfire

# The Results: Impact on the client organization

The project resulted in significant improvements for the client, including a 20% faster clinical development process and a 30% reduction in time spent manually processing data. The enhanced data governance and advanced analytics capabilities also contributed to a 15% faster time-to-market and a 40% increase in data quality.



**Accelerated Development:** Effective decision intelligence led to 20% faster clinical development.



**Enhanced Data Quality:** With improved governance, the client saw a 40% increase in data quality and regulatory compliance.



**Operational Efficiency:** Automation produced a 30% reduction in time spent manually processing data.



**Improved Decision-Making:** This work led to 25% faster clinical decision-making and improved accuracy.



**Faster Time-to-Market:** This initiative resulted in a 15% quicker time-to-market with 10% lower total cost of ownership.