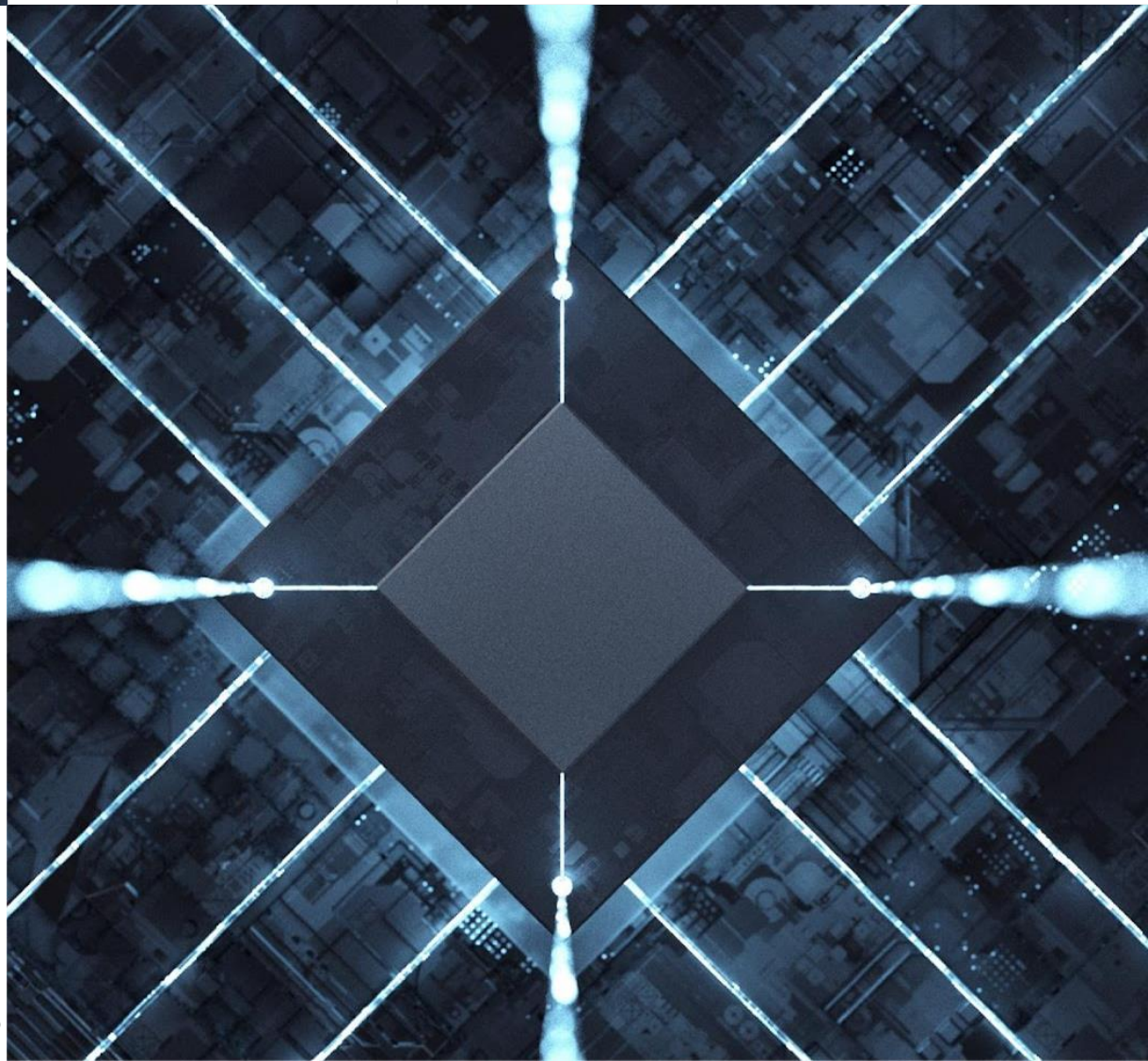


## Tiger Analytics equipped a Life Sciences giant with a Centralized Cloud Ecosystem to **meet all their analytics and reporting needs**

Tiger Analytics built a fully integrated, robust and standardized cloud ecosystem to enable advanced analytics. It led to seamless development and deployment of AI & ML models at scale. The solution also reduced the overall processing time for a key business use case from 12 hours to just 40 minutes.



# The Background

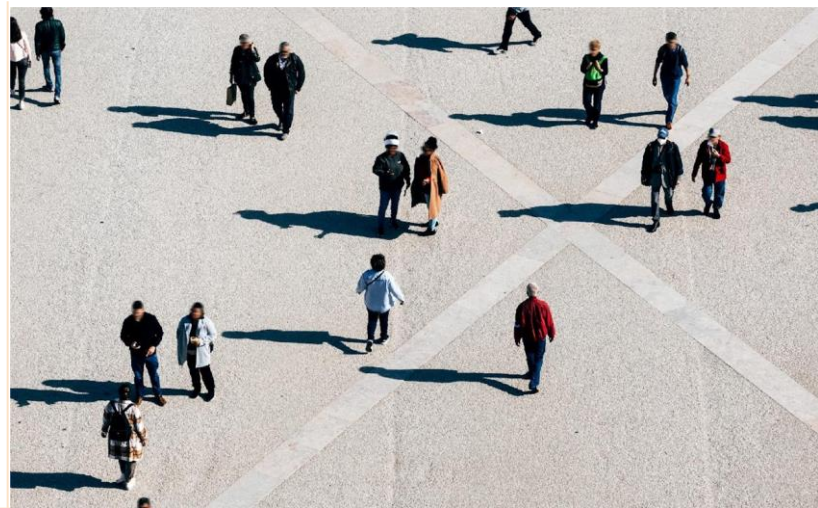
Our client is one of the largest Life Sciences companies in the US. They were in need of a Unified Data and Analytics platform. They wanted this platform to support multiple Analytics and Machine Learning(ML) use cases. The client also required standardized processes and tools across the ML Lifecycle (Model Development, Deployment, and Management).

## Key Challenges

\ **Platform limitations for AI & ML development:** The existing platform could not support the data science team that develops AI & ML models. So, it proved detrimental to use cases across research and development, manufacturing and distribution, commercialization, etc.

\ **Deployment delays in model integration:** There was a lack of process optimization in deploying the AI & ML models to production, causing disruptive delays.

Drive change with  
end-to-end solutions



# Our Solution

Tiger Analytics designed and deployed a scalable, robust Data and Analytics platform to enable advanced analytics and the development and deployment of ML models at scale.

At the center of this transformation was the **Data Foundation**. The architecture was layered to ingest, store, transform, and derive insights. Internal, external, and third-party data sources were incorporated into the ecosystem. Resources like S3, DynamoDB, or similar platforms were utilized for analytics purposes, with metadata being managed for cataloging, feature storage, and model artifacts. Ensuring compliance with regulatory standards, the team incorporated encryption measures at rest and during data transit, implemented Data Masking, and ensured the de-identification of PII.

The next solution consideration was **Infrastructure**. The platform was built for model training, hosting, and scaling. Leveraging Infrastructure as Code, tools like Terraform/CFT were employed to drive scalability across geographies.

Lastly, the team created a **Data Science Framework** that enabled

- / Unified Data Science experience
- / Unified process and technology
- / DS/ML platform
- / Onboarding of local models to the cloud
- / ML pipeline

The team also enforced standards and best practices, including versioning and CI/CD.

## Tech Stack

/ AWS

/ Sagemaker



## Value Delivered

- / The platform supported various Analytics and Reporting needs, serving data for different use cases as required.
- / Automated data ingestion was seamlessly achieved from multiple vendors across different cloud platforms.
- / The overall processing time for a specific use case (Wellness Visit) was dramatically reduced from 12 hours to a mere 40 minutes.
- / There has been a notable improvement in the data provisioned to business users and data scientists.

## About Us

Tiger Analytics is a global leader in AI and Analytics, helping Fortune 500 companies solve their toughest challenges. With over 4000 data technologists and consultants spread across offices in the US, Canada, UK, India, Singapore, and Australia, we help our customers accelerate their AI and Analytics journey in sectors like CPG, Retail, Insurance, BFS, Manufacturing, Life Sciences, and Healthcare. Tiger Analytics is a Great Place to Work Certified and a 'Leader' in the Forrester Wave: Customer Analytics Services Report 2023.

Visit <https://tigeranalytics.com>. to see how Tiger Analytics provides certainty for a better tomorrow.