



Data Architecture Modernization on Azure

www.sigmoid.com





About Sigmoid

Sigmoid is an emerging leader in data engineering and AI solutions.



750+
Employees



Work with **30+**
Fortune 500 firms



>97%
CSAT score



200+
ML models operationalized



5000+
Data pipelines built

Backed by

SEQUOIA

Awards and Recognition

500™

Technology **Fast 500**
2023 NORTH AMERICA
Deloitte.

*** ISG**

Provider Lens 2023 Quadrant

Analytics Services
Rising Star, U.S. ★

Report releasing Jan 2024



**America's
Fastest-Growing
Private Companies**



**Open Source data
solution provider
of the year**



FORRESTER
Now Tech:
AI Consultancies,
Q1, 2021 Report

Major Contender in

EVEREST GROUP

Analytics and AI Services Specialists
PEAK Matrix (2022)

Offices



New York



San Francisco



Dallas



Lima



Bangalore



Amsterdam

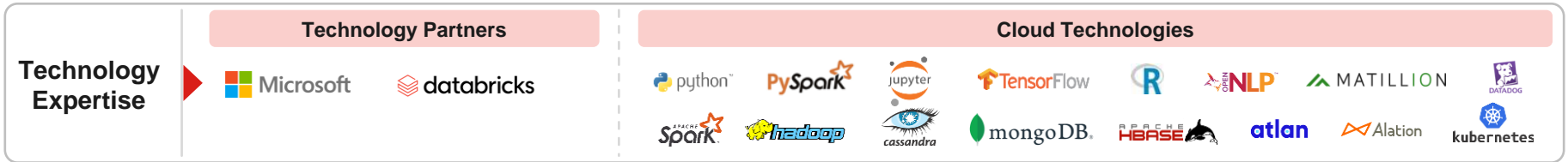
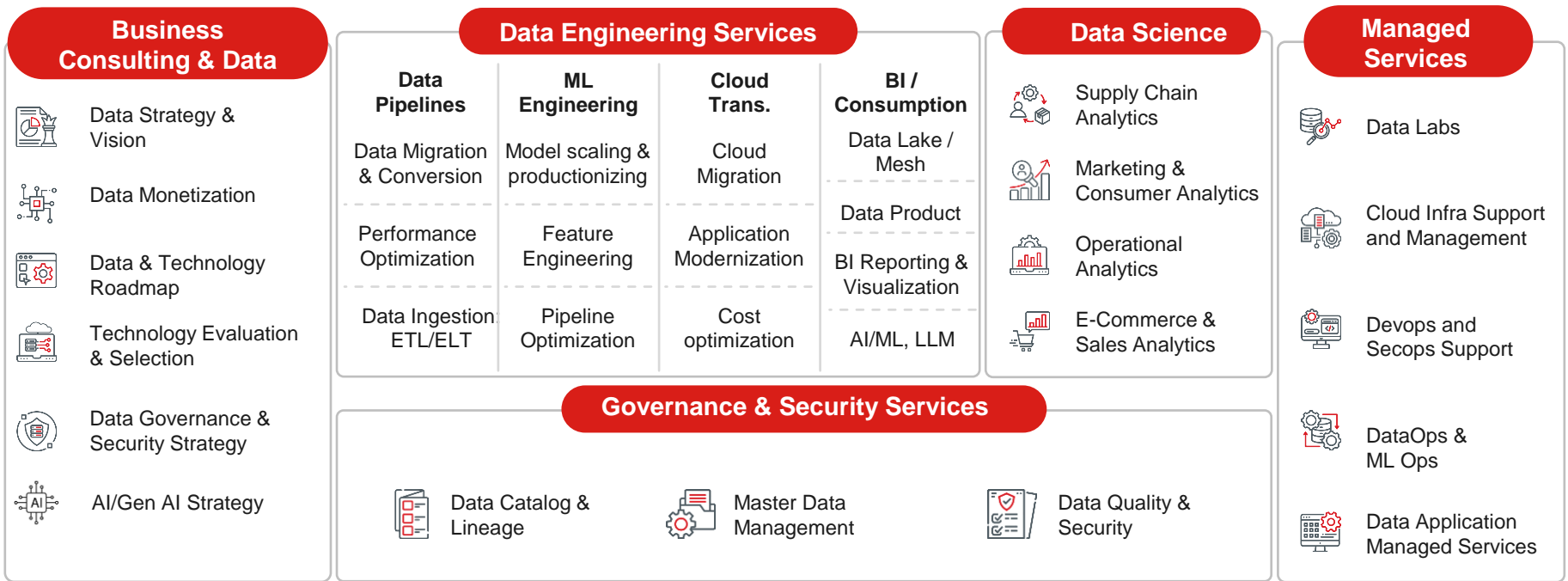


London



Sao Paulo

Enabling Business Transformation with Full-Service Capability Suite



Sigmoid Capabilities - Experience in implementing data solutions in Azure

Sigmoid has worked with more than Five large customers to design, build and deploy solutions in Azure

Data Processing & Transformation:

- **Azure Databricks:** Collaborative Apache Spark-based analytics platform to be used for big data processing and machine learning.
- **Azure HDInsight:** Managed cloud service for processing big data using popular open-source frameworks like Hadoop and Spark.

Data Analytics & Visualization:

- **Azure Synapse Analytics:** Analytics service which will be used for analyzing large amounts of data using either serverless or provisioned resources.
- **Power BI:** Business intelligence tool to be used for creating interactive visualizations and reports.

Data Storage & Management:

- **Azure Data Lake Storage:** Scalable and secure data lake for storing large amounts of structured and unstructured data would be considered.
- **Azure SQL Database:** Managed relational database service for structured data storage.

Data Ingestion & Integration:

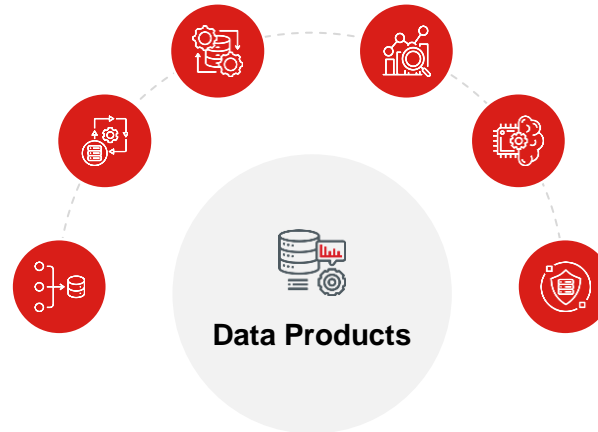
- **Azure Data Factory:** Creating data pipelines to move and transform data from various sources.
- **Azure Event Hubs:** Real-time data ingestion from applications, devices, or any data streams would be done.

Machine Learning & AI:

- **Azure Machine Learning:** End-to-end platform for building, training, and deploying machine learning models.
- **Cognitive Services:** Pre-built AI services for vision, speech, language, and decision-making.

Security & Compliance:

- **Azure Active Directory:** Identity and access management service.
- **Azure Policy & Blueprints:** Tools for implementing governance and compliance across Azure resources.



Sigmoid's implementation of solutions in Azure involves leveraging a combination of services and tools tailored to specific business needs. Sigmoid would collaborate between data engineers, data scientists, business analysts, and other stakeholders as it is essential to align the implementation with business goals and ensure success.



Capabilities in Data Engineering

Problems We Solve for Our Clients in Data Engineering



Data Pipelines

Business not able to respond in real time

Automating data ingestion & scalability of data pipelines

Data quality issues and trust in data

Maintaining and monitoring data pipelines



MLOps

High failure rate of deploying ML models in production

Creating and managing ML pipelines

Model Drift in Machine Learning

Longer development and deployment lifecycle



Cloud Data Warehouse

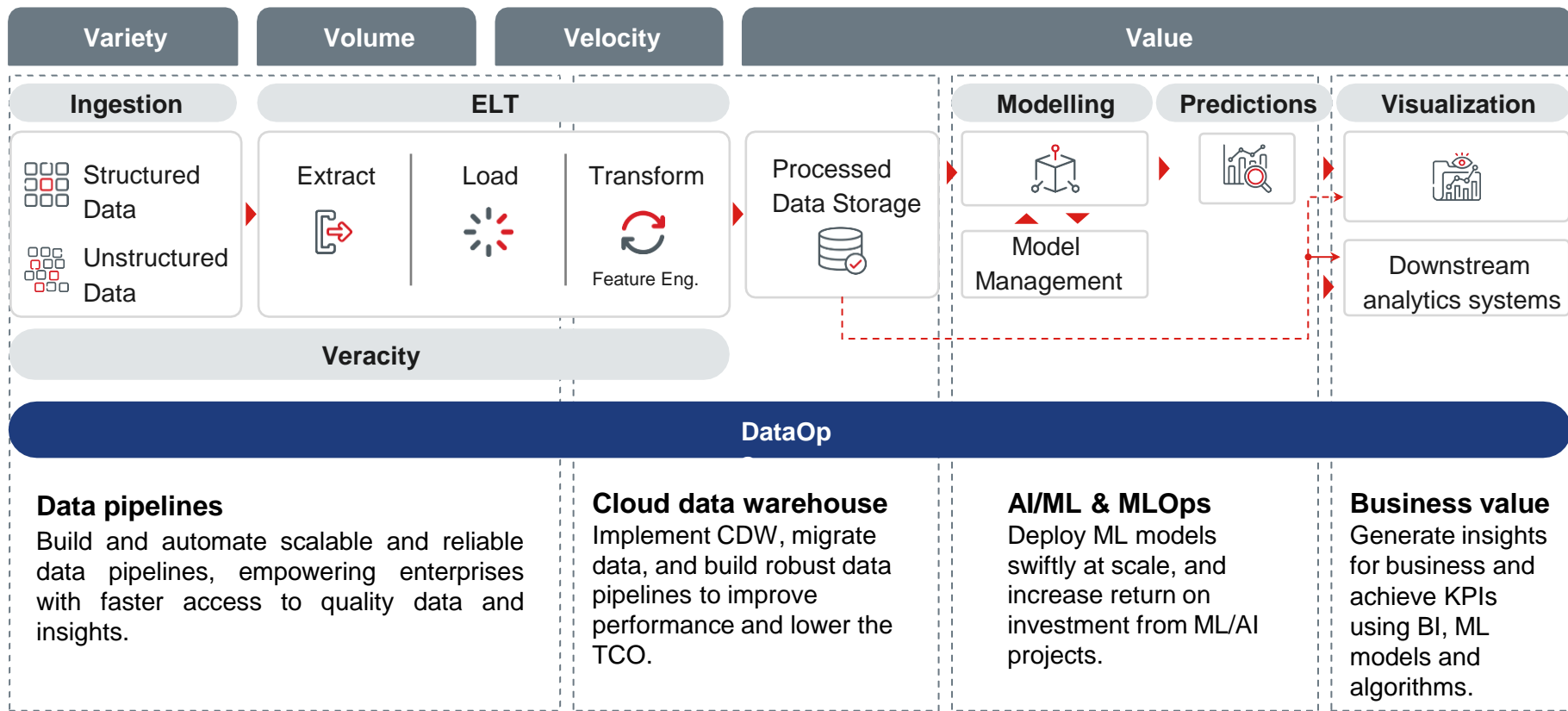
Technology selection for a use case

Data migration from on-premise to CDW

High TCO of a traditional data warehouse

Rigid and inflexible infrastructure

Services Spanning the Data Engineering and Analytics Value Chain



Expertise across the end-to-end data Engineering value chain

Data Quality & Governance

Defined data quality check rules and scripts for every input field and applied them on incoming data.

>90%

Accuracy



QSR – Fast Food Chain

Real-Time and Free-Flow Analytics Solution

Delivered a production grade free flow analytics solution to enable external reporting in real-time

1 Bn+

Business Records



Leading Financial Enterprises

Trade surveillance analytics for enhanced regulatory compliance

Streamlined and processed **100 MN rows daily** to reduce processing time, minimize false alerts and improve the overall performance of data pipelines.

4x

Faster response times



Top-3 Investment Bank

Robust data warehousing infra to enable real time customer insights

Highly effective data warehousing and management solution empowering 500+ business users to have full interactive access with a single source of truth (SSOT) to run ad-hoc queries

60%

Faster reporting time



Leading Life Insurer

Sales Prediction Improvement from faster model training - MLOps

Implemented industry leading MLOps practises, reducing the time to train models, automate model training for new brands, reducing the prediction errors and cost of running models

57%

Sales prediction improvement



Global CPG Brand - Health and Hygiene

DevOps for 24/7 monitoring and highly-available systems

Built and managed **highly-available** and robust systems, performing proactive as well as reactive monitoring to power real-time decision-making and reduce operational costs.

99.99%

System uptime delivery



Cloud Service Company



Engagement Models

Sigmoid's Engagement Models

Project Based



- Starts with consulting/scoping (2-3 weeks)
- Delivery Program Management
- Interim review
- Success criteria met and IP handover
- Option to continue with product support
- Fixed bid contract
- 3-5 months duration given complexity of problem

Benefits

- Cost effective
- KPI/SLA/Outcome driven
- Suitable for Fixed scope of work
- Less overheads

Staff Augmentation



- Understanding of skill requirements
- Profile match and rate card
- Onboarding and monthly billing
- Focused training based on client tech stack
- Project Management support
- 10% backup resources unbilled and trained

Benefits

- Scalability
- Flexibility in resourcing
- Ability to change/redefine scope

Hybrid-Flexi Model/Data Labs/CoE



- Mix of project and staff augmentation engagements
- Requirement gathering
- Requirement classification - as project or staff augmentation
- Joint delivery plan
- Secure resources internally from Sigmoid and bill monthly
- Dedicated PM, Engineering Managers
- Dedicated Management Consultant(s)
- Dedicated Team Leads and Product Owners

Benefits

- Cost effectiveness by focus on output
- Ability to change/redefine scope/Change requests
- Risk/Reward linked to KPI/SLA

A group of four people (three women and one man) are sitting around a wooden table in a meeting. They are all smiling and gesturing with their hands, suggesting a collaborative and positive discussion. The background shows a whiteboard with some diagrams. A semi-transparent dark grey box is overlaid in the center of the image, containing the text.

Thank You

Reimagine your business with data

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