



 Microsoft
Solutions Partner

Data & AI
Azure

Low Code No Code Ingestion Framework

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



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



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

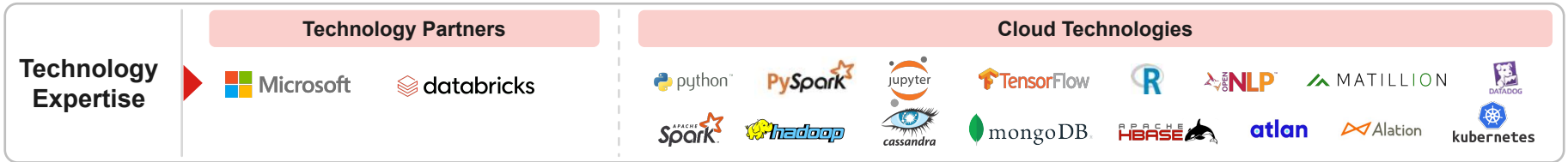
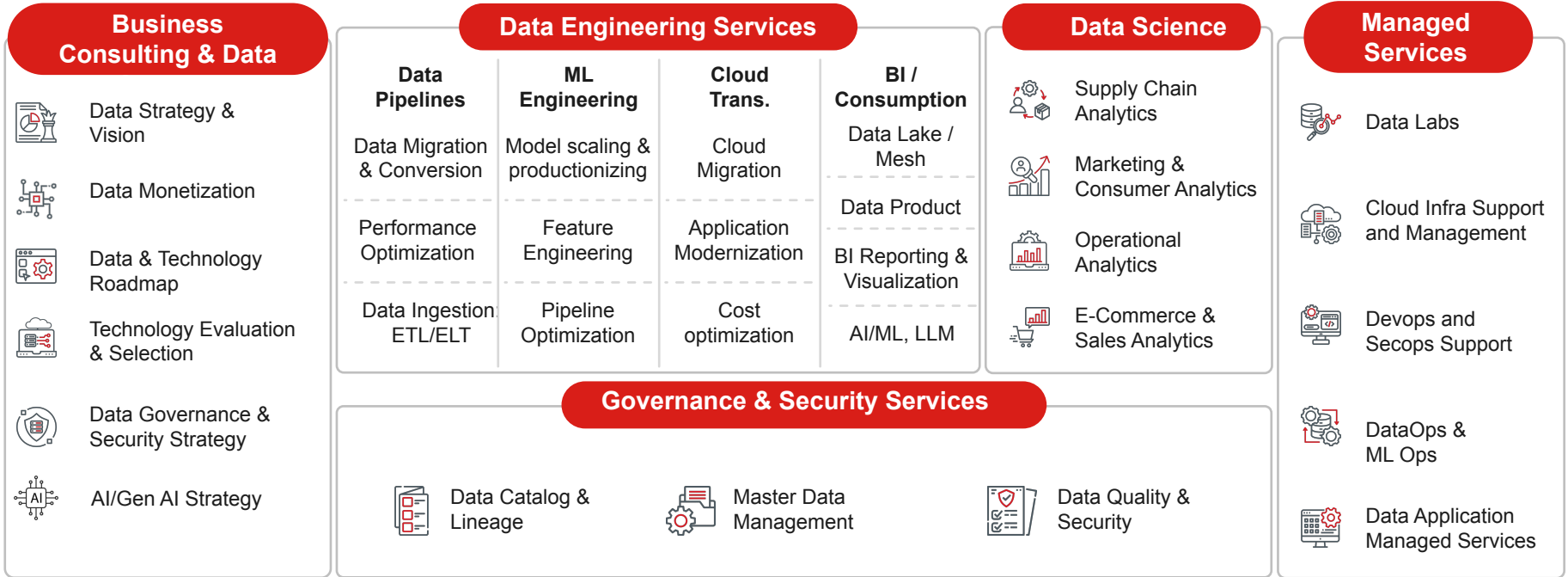


London



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 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.

Data Analytics & Visualization:

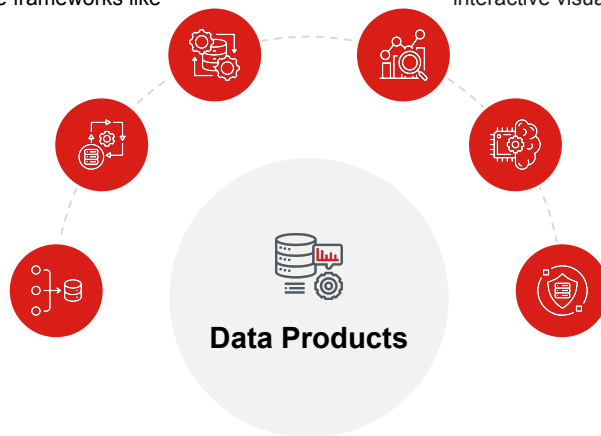
- **Azure Synapse Analytics:** Analytics service which will be used for analyzing large amounts of data using either serverless or provisioned resources.
- **Power BI:** Business intelligence tool to be used for creating interactive visualizations and reports.

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.



Low Code No Code Ingestion Framework

Low Code No Code Ingestion Framework

Category - Horizontal



Consumer & Customer Experience



Associate Experience



Supply Chain & Sustainability



Modern Store, Edge & Factory



Migrate, Modernize and Secure

01 What is the problem statement

Need for separate and specialized frameworks for ingesting data from dissimilar sources is a cumbersome task. Moreover, significant amount of time is spent on orchestrating and transforming these engineering pipelines which leads high cost, effort and inefficient usage of Cloud-native technologies

02 What is the solution

Sigmoid's LCNC data ingestion Framework follows a metadata driven architecture that offer rapid development and democratization of data, enabling Data domain leaders for automating ingestions and helping business users with robust, accurate and precise programmatic access of specialized reports

03 Why Microsoft + Sigmoid?

The integration of our low-code ingestion framework with Microsoft Fabric enables organizations to accelerate their data ingestion processes, improve agility, and leverage the scalability and reliability of a microservices-based architecture.

Customer Use Cases the Framework can Facilitate

01 Rapid Application Development

LCNC ingestion frameworks empower non-technical users and citizen developers to create applications quickly and easily, without extensive coding knowledge

03 Data Science & Analytics

LCNC ingestion frameworks empower non-technical users to perform basic data analysis and create visualizations without heavy reliance on data scientists or IT teams

02 Process Automation

LCNC ingestion frameworks streamline and automate business processes by eliminating manual and repetitive tasks.

04 Legacy System Modernization

Modernizing legacy systems by building front-end interfaces, integrating with existing systems, and simplifying complex legacy workflows using LCNC tools.

Speed to Implementation -use case dependent

WEEKS MONTHS

Time to Value

LOW HIGH

Complexity of Sale

LOW HIGH

Proven in Industry

LOW HIGH

ROI

LOW HIGH

Customer Success Story



Large FinTech
Company
Industry: FS

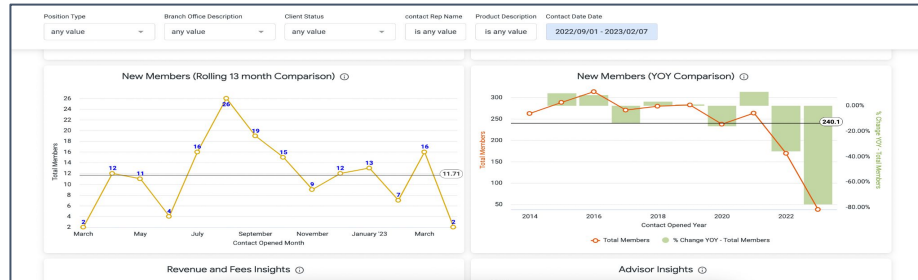
Client Overview & Challenges

- The client is a leading FinTech provider serving over 15,000 global banks and credit unions
- Their user experience suffered due to extended lead times (>1 month) for onboarding new clients
- Limited availability of insights hindered informed decision-making for clients, alongside challenges in managing extensive first, second, and third-party data while ensuring regulatory compliance
- They required a solution to expedite client onboarding and create a new service line and revenue stream through effective data monetization

Sigmoid's Approach

- Sigmoid helped create a digital banking data platform, integrating data engineering, DataOps, and advanced analytics, streamlining data processing and analysis
- The Low Code No Code Data Ingestion Framework was used for seamless integration of external data sources with a configurable framework. Supporting various data pipeline methods like SFTP and GCS, the visual interface facilitated rapid prototyping and iterative development, enabling users to experiment and refine their data ingestion pipelines in real time.
- A single-tenant Financial Institution Data Lake was created, efficiently storing and providing access to data with a templated infrastructure
- A multi-tenant, PCI-compliant zone was established to handle sensitive vendor data like Social Security Numbers (SSN), ensuring data security
- Sigmoid provided comprehensive support, including vendor analysis, data pipelining, warehousing, data modelling and dashboarding

Sample Dashboards



~2x

faster new client
onboarding

1.6x

faster dashboard
load - time

Data

Monetization

of proprietary
information



Engagement Model



LCNC - Engagement Model



Scope Alignment & Data Acquisition

1 week

- Agree on Data Sources, granularity, frequency, cardinality
- Understand existing datasets, schema
- Understand business requirements
- Agreement on Success Criteria
- Identify Business POC for data acquisition



Engineering Pipeline Orchestration

2 weeks

- Activity to initiate after data acquisition is complete
- Customize LCNC Framework for meeting specialized use-case



Testing and Deployment

2 week

- Test pipelines for Integration, Data validation, frequency
- Stress Test for Scale, robust etc



Publish Outputs & Agree on next steps

1 week

- Publish final outputs to business & IT/Data team and align on solution roadmap

60,000 USD

6 Weeks Engagement

Timelines

Delivering Scalable LCNC Framework							
Description of tasks	W	W+1	W+2	W+3	W+4	W+5	W+6
Access, Infra Provisioning, Onboarding, Business-Case, Technical Challenges related to scalability, stability etc	█						
Data sources, schema definition, solution walkthrough, success criteria and signoff		█					
Customizing LCNC Framework			█	█			
Testing, Deploying, Data Validation and Frequency				█	█		
Handover for User Testing						█	
Documentation, Success Criteria and Training Sign Off							█

Thank you!

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Peru: Lima | India: Bengaluru

www.sigmoid.com



Sigmoid has been our preferred data & analytics partner. Their teams have an innovative approach to problem-solving and are highly invested to deliver tangible business results!

- VP Marketing of Digital & eCommerce,
F500 CPG firm