Microsoft

OVERALL OFFERINGS

Microsoft Partner

Agenda

Introduction

Onelogica is Born-in-cloud company focusing on the digital innovation in the field of Data Analytics, Big Data, Machine Learning and Artificial Intelligence.

We also help organization build smart applications using leading-edge technologies thereby transforming & Modernizing businesses optimally.

Introduction..

Founded in 2023

35

Employees

Partnerships

Microsoft

Databricks

Presence in

India

Canada

US

Certification

50%

Employee

Certified

on Azure

3 Customer

In just 3

months

Our Philosophy

Curiosity
- Understanding the business problem

Innovation
- Solving problem by innovation

Process
- Process & frameworks uniquely carved

Value
- Equality & Transparency

Technology Landscape
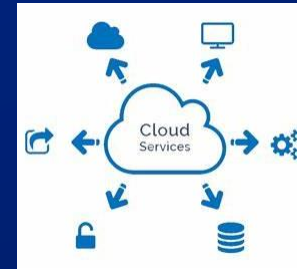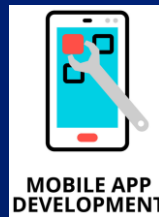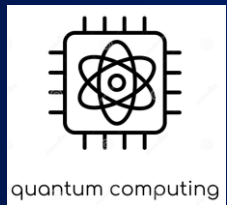
Strategy

Insights

- Derive Business insights

Solution

- Solution based approach (Keeping industry in mind)

Technovation

- Providing end to end solution through innovation

Customization

- Customization as per enterprise needs

Products

Fin-I

Financial Intelligence Chatbot

EAS

Enterprise Analytics Suits

O-Search Engine

Open AI Based Domain Custom Search Engine

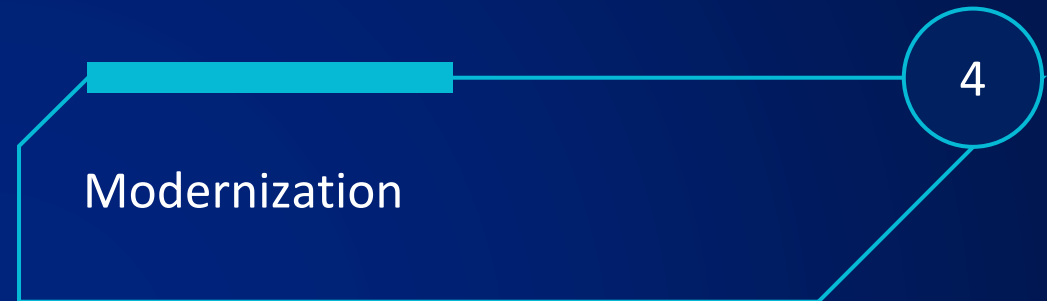**O-Processing**

Automated Form and Invoice Processing

SREE

Smart Retail Enterprise Engine

Solutions

1 Migration

2 Information Management

3 API/Microservices

4 Modernization

5 Predictive Analytics

6 Climate Change and Sustainability
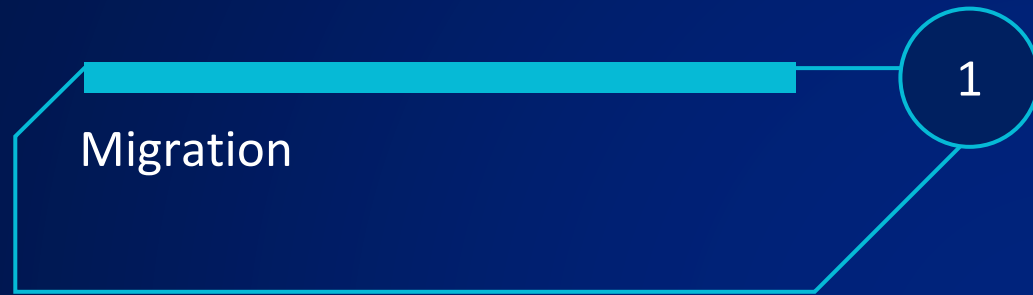
Industries

BFSI
- Banking
- Capital Markets
- Insurance

Government
- Policy
- Public Outreach

Healthcare
- Life Science
- Wearable Devices

Automotive
- Aerospace
- EV

Manufacturing
- SCM
- Industrial Products

Retail
- CPG
- E-Commerce

Telecommunication
- 5G
- Networks

Energy
- Renewal
- Water
- Waste

Gaming
- Sports Analytics
- Personalization
- Behavior Analytics

Azure Landscape

Data and AI

- Big Data
- Cognitive
- NLP
- Synapse
- Data Bricks
- AI/ML

Business Applications

- Power Apps
- Power BI
- Power Platform
- Power Automate
- RPA
- Microsoft Dynamics 365

Digital & Apps Innovation

- Application Modernization
- Low Code No Code
- Microservices
- Web3
- Serverless
- Mobile Apps

Security

- Identity Governance
- Azure Active Directory
- Zero Trust
- Multi Factor
- Azure Sentinel
- Management

Devops

- Devops
- DevSecops

Modern Workplace
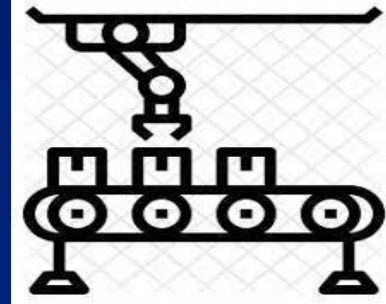
- Microsoft Viva
- Teams
- Bots

Solution for Industry

Item Categorization
Inventory Planning
Footfall at Retail Store
Shopping Experience
Theft Prevention
Surveillance

Diagnostic assistance
EHR data extraction
Dentistry
Medical reference
Medical transcription
Insurance claims

Quality Checks
Warehouse Management
Warehouse Safety
Inventory Sorting
Surrounding Perception
Logistic Handling
Preventive Maintenance
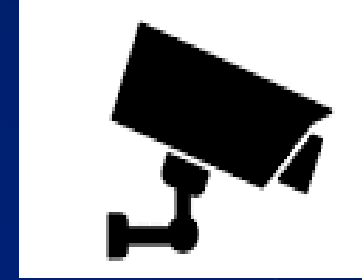
Crowd Detection
Face Detection
Traffic Management
Theft Detection
Suspicious Activity Detection
Night Vision Detection

Ariel View Image Mapping
Geo Sensing Segmentation
Human Tracking
Object Detection
Suspicious Activity Detection
Crowd Management

Visual Search
Brand Perception
Sentiment Analytics
Fake Vs Real

Vehicle Dent Detection
Damaged Car Body Parts
Insurance Doc Annotation
Fake Vs Real

Tagging for Buildings
 Interiors
Object Detection at
Construction Site
Project Layout
 Plan Management

Parking Management
Waste & Disposal Management
Traffic Management
Security & Surveillance

Landmarking Sport Action
Capturing Sports Action
Object Detection

Industry:
Edu-Tech

Unified Data Model creation and Unified Analytics

Client Overview And Requirements

- ❖ The company leverages a robust set of applications to collect & manage data and transform it to get all data at one place for 360 business decisioning

- ❖ Their objective is to unified data model which caters to all possible requirements of analytics and decision science

- ❖ Analysis of existing source systems and application to create a unified data model with minimal impact on downstream applications

Challenges Faced In Existing System

- ❖ Heterogeneous data sources and formats

- ❖ Maintaining existing business rules and provide flexibility to add more rules without impacting the downstream applications

- ❖ Designing and implementing an optimal data models which caters futures requirements

- ❖ Balancing between ETL/ELT and extraction of metadata information along dta driven business rule

- ❖ Providing flexibility to data model as per functional requirements and option to add more columns and supporting tables

Solution Approach

Case Study: Unified Data Model creation and Unified Analytics

Solution Approach

- ❖ Migration of historical and Incremental load of to AWS cloud
- ❖ Extraction of existing metadata and data driven business rules
- ❖ Applying domain and data expertised to model the data as per business requirements
- ❖ Data validation and anomalies reports
- ❖ Query comparison to optimize the load time and overall performance
- ❖ Implemented unification analytics to keep data which can be easily aggregated and available for feature mining and enhancements
- ❖ Maintaining all history of data along with business flags and rules taxonomies to provide more flexibility

Business Impact

- ❖ Time reduction by 80%
- ❖ Cost reduction by 65%
- ❖ Data accuracy ~99.xx%
- ❖ Effort reduction for Data science team weeks to days

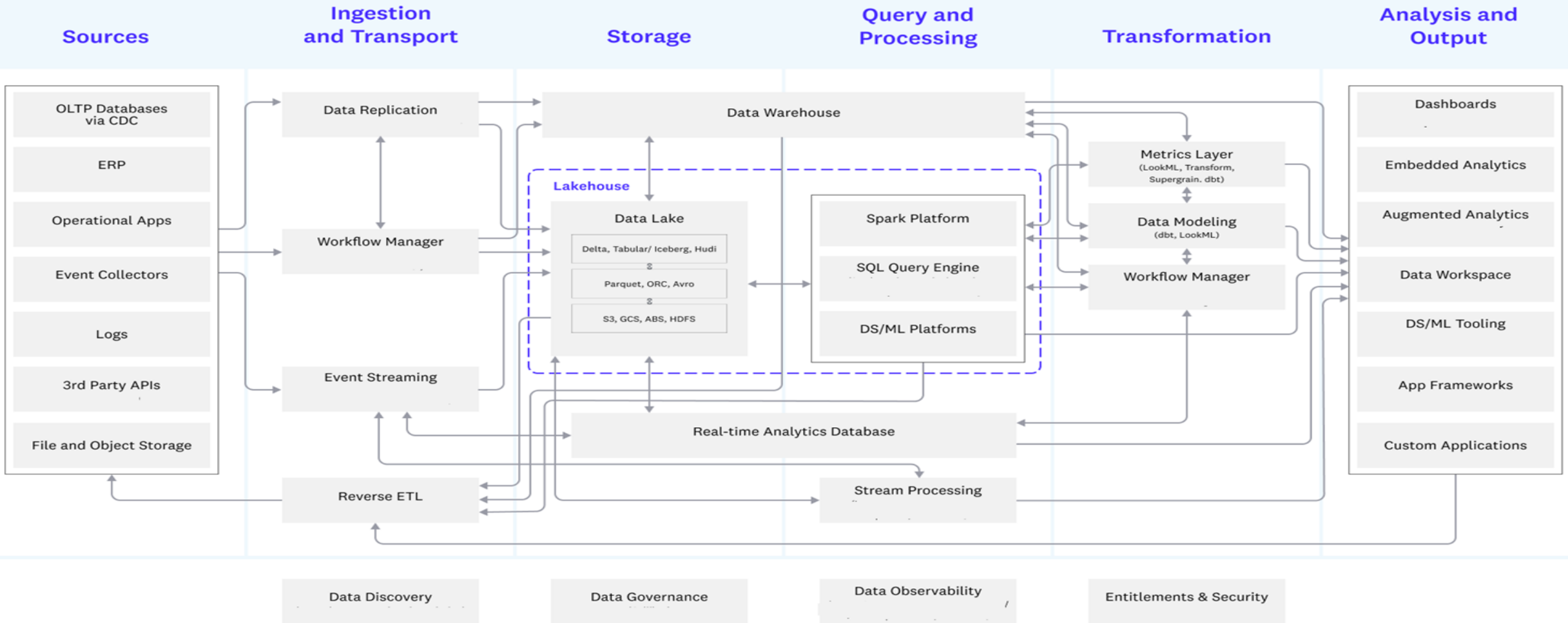## Technology Stack

PySpark	MATILLION	python	dbt		ahana

The Solution In Numbers

80%
Time reduction

65%
Cost reduction

99.xx%
Data accuracy

System Architecture Diagram

Industry:
Telecom

Data Engineering and Master Data Management

Client Overview And Requirements

- ❖ The company leverages a robust set of applications to collect & manage data and transform it to get all data at one place for 360 business decisioning

- ❖ Their objective is to create datalake using best industry practices of ETL/EL, Data harmonization & Master data management to enrich the data and managing the data life cycle which help in quick decision making

- ❖ Identification of existing gaps in data and fulfill gaps to achieve data in action vision and single version of truth

Challenges Faced In Existing System

- ❖ Different source systems with no commonality to get the single version of truth

- ❖ Extremely large data sets of existing system with no checks and balances

- ❖ Absence of incremental load process with more processing time and no data availability for downstream systems

- ❖ Migration of existing systems with minimal impact of current business as usual

- ❖ Missing information or identifier to get the golden data

Solution Approach

Case Study: Data Engineering and Master Data

Solution Approach

- ❖ Integration all sources to bring data to central repository to achieve datalake goal
- ❖ Applying data harmonization principles to get the gaps and enrich the data
- ❖ Develop detailed logical, data & technical architecture
- ❖ Using MDM to get data quality checks and get the golden records
- ❖ Trade off between ETL/ELT to get the data into business mart for better decision making
- ❖ Simplified and standardized data and procurement processes
- ❖ Created end to end data pipeline for data ingestion and automation the process with proper alert system in place
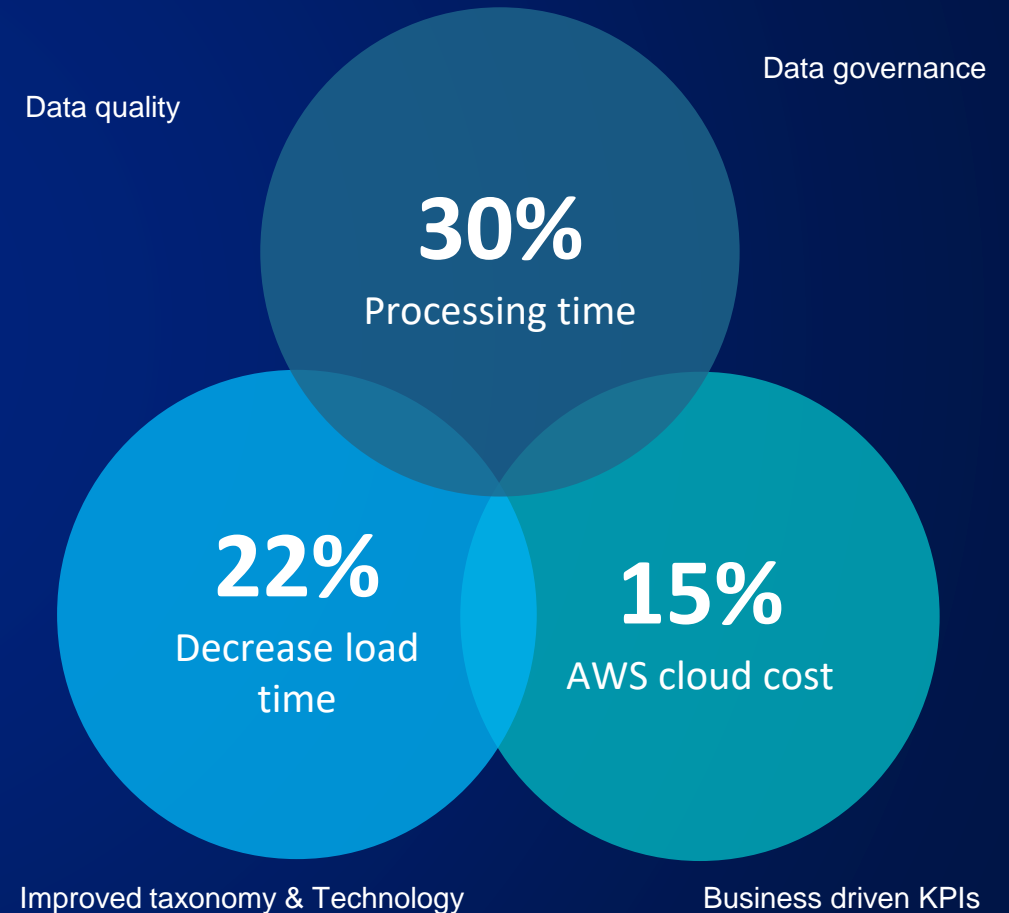
Business Impact

- ❖ Improved the data quality and gaps
- ❖ Processing time improved by 30%
- ❖ Decreased data load time by 22%
- ❖ Reduction of AWS cloud cost by 15%
- ❖ Ensuring data availability 24*7 for all downstream application
- ❖ Re-usable architectural patterns to speed up implementation

Technology Stack

PySpark MATILLION python dbt ahana

The Solution In Numbers

Data quality

Data governance

30%
Processing time

22%
Decrease load time

15%
AWS cloud cost

Improved taxonomy & Technology

Business driven KPIs

Use Case 3

Industry:
Edu-Tech

Cutting edge Data Analytics and Data Science

Client Overview And Requirements

- Creation of actionable and business decision driven dashboard
- Provide information to derive business driven KPIs and metrics
- Scholar preparedness Index for each schools at scholar level
- Personalized growth and academic plan including data at school and across network
- Prediction of scholar and staff attrition model
- Realtime bonus computation engine with flexibility to add more data sources and parameters.

Challenges Faced In Existing System

- Capturing all required information using data
- Getting historical data for predictive modeling
- Capturing data from other sources to include more realistics parameters for SPI and personalization goals
- Choosing right set of algorithms as per business needs
- Capturing feedback and looping into the system to improve the model accuracy and performance

Solution Approach

Case Study: Cutting edge Data Analytics and Data Science

Solution Approach

- ❖ Built an adaptive and self-learning AI based model for Scholar preparedness Index
- ❖ Parsing & wrangling on different data components for feature engineering
- ❖ Enabled deep drill down on data for understanding of time based behavior patterns to identify the underlying factors for better decision making
- ❖ Optimized algorithm for better results and performance
- ❖ Implemented end to end analytics framework for personalization experiences for scholars and schools
- ❖ Created process automation framework for creation of business driven report
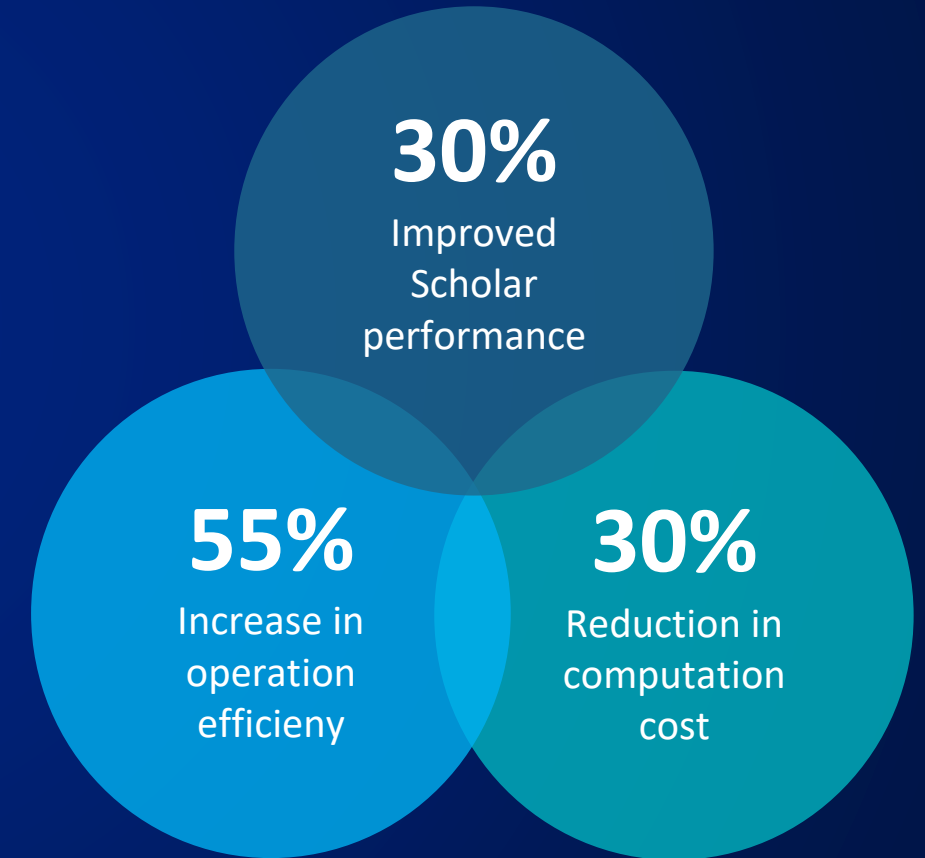
Business Impact

- ❖ Improved the scholar performance by 30%
- ❖ School operations efficiency increased 55%
- ❖ Scale: Able to process 10M+ data of scholars
- ❖ Reduction in computation cost by 30%

Technology Stack

PySpark | Jupyter | python | Looker

The Solution In Numbers

30%
Improved Scholar performance

55%
Increase in operation efficieny

30%
Reduction in computation cost

Use Case 4

Industry:
**Healthcare Data Analytics**

Data Engineering and Enrichment

Client Overview And Requirements

❖ The company sources multiple lab and claims data, de-identified on-site, each with their own methods of data classification and representation

❖ Their objective is to create an ingestion system with monitoring, unified datalakes using best industry practices of ETL/EL, data harmonization & enrichment to enable provision of high quality, standardized data for their products

❖ The final data needs to serve the needs of both analytics teams and product delivery teams

Challenges Faced In Existing System

❖ Different lab and claims data sources with varying taxonomies

❖ Billions of rows of data to be monitored and manipulated everyday

❖ Standardization methods are fixed rule-based dependent on manual examination with no automation

❖ Existing tech infrastructure not suitable for manipulating growing number of data sources
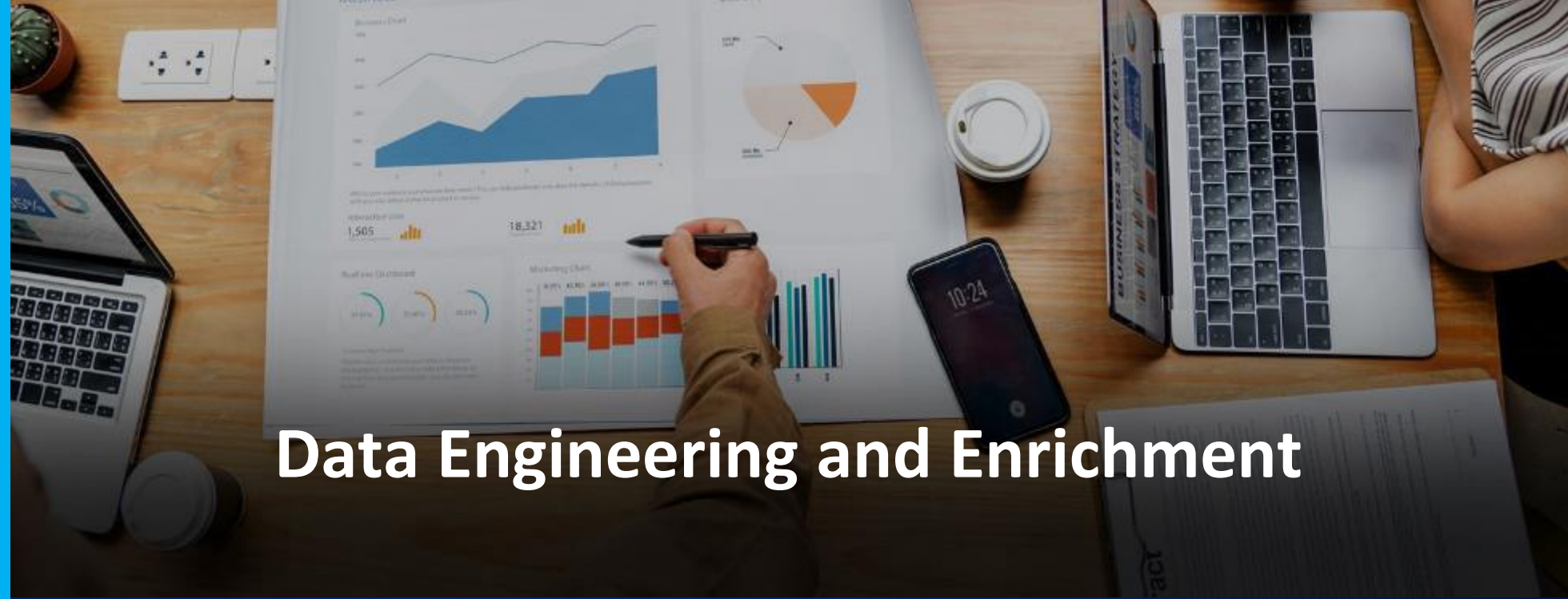
Solution Approach

Case Study: Data Engineering and Enrichment

Solution Approach

- ❖ Fully automated and orchestrated data ingestion pipelines directly from more than 10 Diagnostic Laboratories
- ❖ Created two taxonomies suited for adapting to all lab and claims data sources. Created a unified data pond, puddle and lake using the new taxonomies
- ❖ Harmonized entity identifiers like patient and HCPs to link across datasets
- ❖ Used Machine Learning algorithms to predict and then automate standardization of incoming test names
- ❖ Built a data model to assign most relevant Oncologist on a given test record when HCP information is erroneous or missing
- ❖ Used Named Entity Recognition to identify organ, test and diagnosis from thousands of pathologist comments
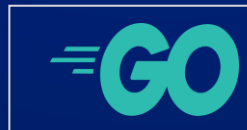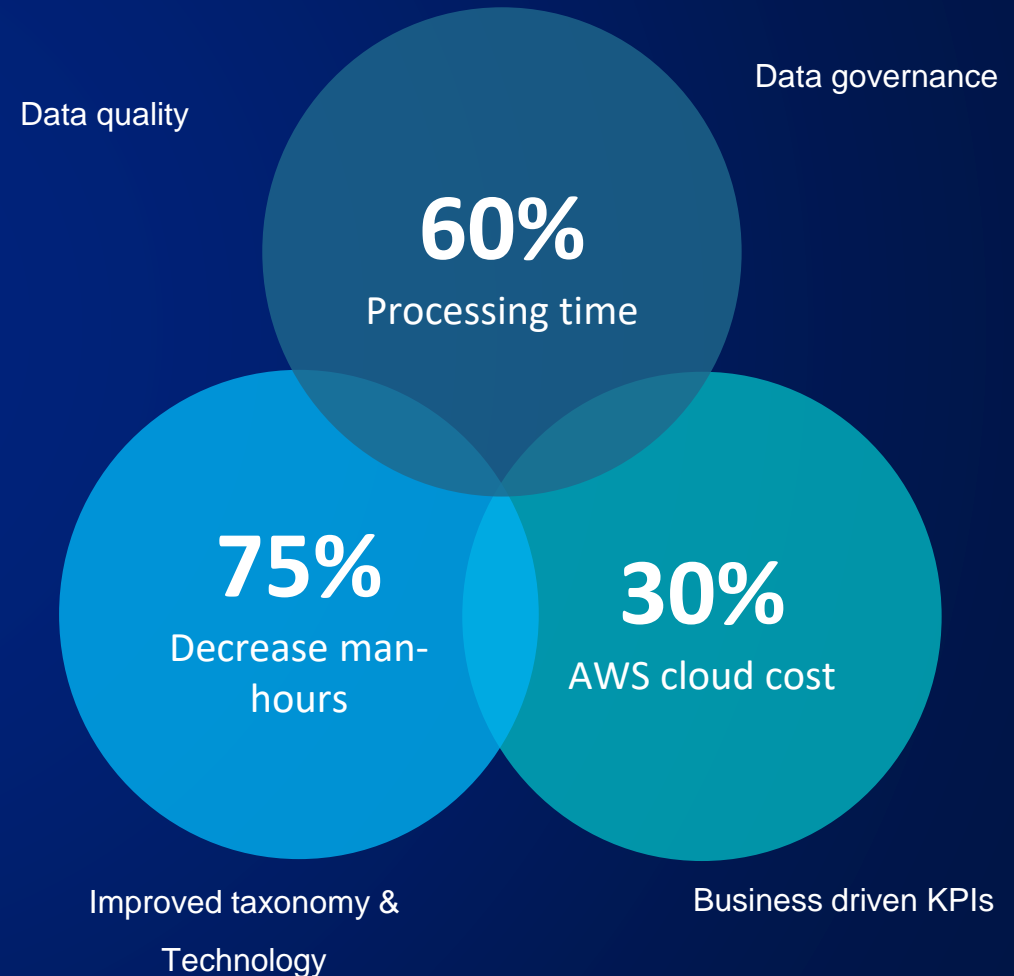
Business Impact

- ❖ Improved the data quality and gaps
- ❖ Processing time improved by 60%
- ❖ Decreased man hours requirement by 75%
- ❖ Reduction of AWS cloud cost by 30%
- ❖ Ensuring standardized data availability at all times for all downstream consumers

Technology Stack

python   databricks   Scala   ≡GO

The Solution In Numbers

Data quality   Data governance

60%
Processing time

75%
Decrease man-hours

30%
AWS cloud cost

Improved taxonomy & Technology   Business driven KPIs

Founding Team

Navin Kumar
Co-Founder &
CEO

Shiva Kumar
Co-Founder &
CTO

Pradeep
Chief Delivery
Officer

Seema
Human Resource
Head

Onelogcica – KNOWLEDGE ASSETS

Navin Kumar
- 17 years experience
- Utility, Telecom, Govt
- DS, AI, ML Expert
- TCS, SAS

Shiva Kr
- 18 years experience
- BFSI, Telecom , Govt
- Cloud Architect
- Oracle, SAS

Pradeep Pal
- 20 years experience
- BFSI
- Could, Data Architect
- TCS

Pramod Baghel
- 20 years experience
- Logistics, Supply Chain
- Could, DWH Expert
- Accenture, Co-Forge

Sudip Basu
- 20 years experience
- Technology
- Data Engineer
- CPA Global

Badal Vishal
- 17 years experience
- Logistics, Supply Chain
- Could, DWH Expert
- MARKIT, Natwest

Anat Grover
- 17 years experience
- Technology
- Could, Data Expert
- Wells Fargo, BCG

Sima Priya
- 10 years experience
- Management
- Human Resources
- Big 4

Tathagat Ankit
- 5 years experience
- Technology
- Full Stack Data Science
- LTI

Amanjyot Singh
- 5 years experience
- Technology
- Full Stack Data Engineer
- SAS R&D

Saikat Roy
- 10 years experience
- Technology
- AI/ML R&D Expert
- Big 4

Prachi Gajare
- 15 years experience
- Technology
- BI Architect
- LTI, Reliance

Vanshika Aggarwal
- 3 Years experience
- Technology
- Data Analyst
- Edutech Industries

Deepansh Saxena
- 5 years experience
- Technology
- Full stack Development

Mayuresh Pachange
- 3 years experience
- Technology
- Full stack Development

Onelogica – KNOWLEDGE ASSETS

Shweta Singh
- 2 years experience
- Technology
- Full stack Development

Abhijeet Raj
- 8 years experience
- Technology
- Data Engineer
- Cognizant, UHG

Mansi
- 5 years experience
- Technology
- Data Engineer
- LTI

Anshu Pal
- 3 Years experience
- Technology
- Full stack Development

Himanshu Singh
- 2 years experience
- Technology
- Full stack Development

Anil Gaurav
- 20 years experience
- Technology
- Could, Data Expert
- TCS

Amit Kr
- 17 years experience
- Banking
- Full Stack Data Science
- Yes Bank

Ritesh Kr
- 5 years experience
- Technology
- BI Architect
- Infosys

Gajendra Kr
- 18 Years experience
- Technology
- Could, DWH Expert

Tushar Singh
- 3 Years experience
- Technology
- Data Analyst
- Edutech Industries

Umer Mohammad
- 10 Years experience
- Technology
- AI/ML R&D Expert

Priyanka Singh
- 8 Years experience
- Salesforce
- Infosys

Abhishek Kr
- 3 Years experience
- Technology
- Full stack Development

Shisrti Singh
- 2 Years experience
- Technology
- Data Engineer

Saurabh Singh
- 2 Years experience
- Technology
- Full stack Development
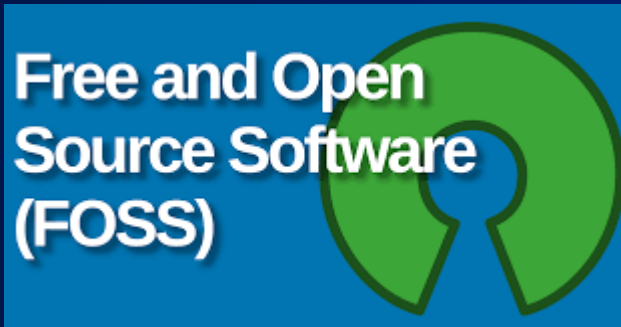
Why Onelogica

DEEP DOMAIN EXPERTISE

PROCESSES ORIENTED : CMMI 3 ISO CERTIFIED

INNOVATIVE TEAM OF DECISION SCIENTIST

OPEN SOURCE FOR COST OPTIMIZATION

QUALITY ASSURANCE

PRODUCTION DEPLOYEMENT

Thank You!

Contact Us :-
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