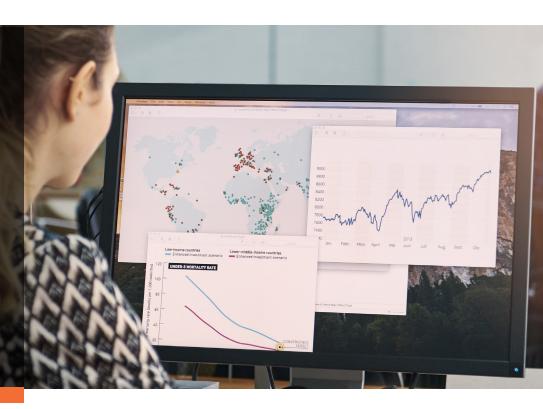


# GlobalLogic Data Platform Accelerator

An end-to-end flexible data platform with pluggable, modular components that enables you to turn data into knowledgeable and actionable insights by gathering, transforming, and enriching data from across your enterprise.



# Implement a fully functional data platform within days, not months

Although extracting value from data across an enterprise is imperative, many businesses struggle with the challenges of big data architecture, technology stacks, and hosting capabilities that are required for ramp-up.

Leveraging cloud native PaaS technologies, the Data Platform Accelerator helps businesses gather enterprise-wide data, transform and enrich it, and deliver it to analysts for extracting value and insights. The GlobalLogic Data Platform provides the option to go with the complete suite or pick and choose from the catalogue of Accelerators within the Data Platform.



#### **Data Integration Accelerator**

Provides the component library required to create data integration pipelines across different sources and targets using Apache Spark



# **Data Quality & Validation Accelerator**

Provides the component library required to perform different validation & quality checks across source and target data sources



#### Data Orchestration Accelerator

Provides the sdk & library required to create orchestration pipelines on top of Apache Airflow



#### **Data Console Accelerator**

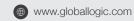
Provides the portal and management console required to configure data access, pipelines and monitor jobs

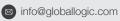


# Data Plane Accelerator

Provides the component library required to perform data profiling, classification and masking on source datasets using Apache Spark.

The accelerators integrate well with each other to enable modularity, flexibility and extensibility.

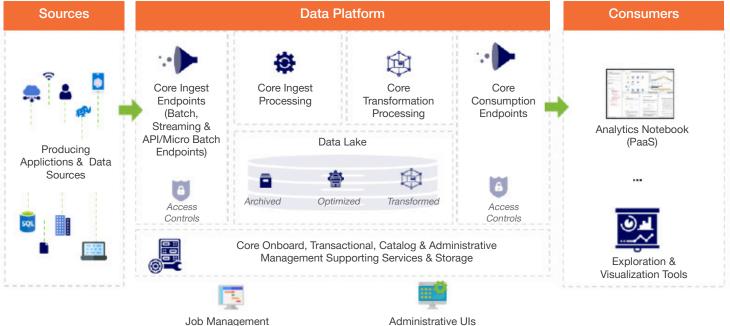










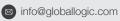


Add value through standardization, consistency, and resuse

The Data Platform Accelerator enables businesses to quickly deploy a centralized, next-gen platform to store and process data — even with limited technical knowledge. The accelerator adds significant value by:

- Eliminating silos that create roadblocks in generating insights
- Enabling consistency around infrastructures, technologies, pipelines and processes
- Providing transparency around available data/adaptors/pipelines to eliminate inconsistencies and duplications
- Manage tedious, non-trivial and lengthy process to provision, configure integrate with ease
- Enabling role-based access control across data, data processing, platform configurations and APIs
- Jump-starting the data science team's ability to create Al/ML models

Job Management









The platform comes with the following features:

# **Deployment**

- Automated installation
- Fully automated resource provisioning for Data Pipeline execution
- Fully automated resource provisioning to enable Consumption

# **Data Ingestion**

- Supports data files in CSV, JSON, Avro, Parquet and ORC data formats
- Supports structured batch-pull from RDBMS / RDS and Snowflake Data

#### **Data Integration & Transformation**

- Out-of-box data integration & transformation powered by PySpark component library
- Ability to integrate with Reporting solutions and Analytical tools

# **Polyglot Storage**

# **Data Quality & Validation**

- PySpark based framework with pre-built component library for common validation rules

# **Control Plane**

- Data Source Management and Schema registration
- Project Management
- User Registration

# **Monitoring**

#### Ingress / Access endpoints

API and JDBC/ODBC endpoints for enabling ingestion and data usage by external analytics solutions

#### **Security**

- Flexible Role Based Access Control based on Azure AD or AWS IAM
- Ownership and Access control
- Integration with AWS KMS or Azure Keyvault

#### **Data Orchestration**

- Template based pipeline orchestration accelerator based on Apache Airflow / Azure

#### **Data Plane**

- Profile the data source and generate common statistics on relevant columns
- · Identify entities and columns with sensitive data based on column names and column value patterns via configurable regex
- Mask or encrypt the sensitive column values using predefined masking algorithms





