

# Cognitive Data Intake

## - Key Building Blocks

Cognitive Data Intake is the process of intelligent sourcing, mapping, enriching, and validating data sets into common data format for ingestion into data stores and/or data warehouse/datamarts. It consists of two components:



### Cognitive Mapping Services

Provides self-learning automated data mapping between source and target data structures, using cognitive and machine learning-based models



### Cognitive Data Validation Service

Provides a centralized self-learning-based data validation and auto correction engine consumed as API, for pre-processing and validation of data

## Key Features

## Cognitive Data Intake

LTI solution built on open source Big Data technologies, leveraging **Spark ML and R** libraries and scripting language

Works with structured and **unstructured** data sets

Predictive Data Transformation, utilizing intelligence and context for data standardization to detect and correct anomalies.

**Contextual blending** of data attributes through auto association and key matching

Data Quality validation through discovery of validation and application of Data Quality rules

