



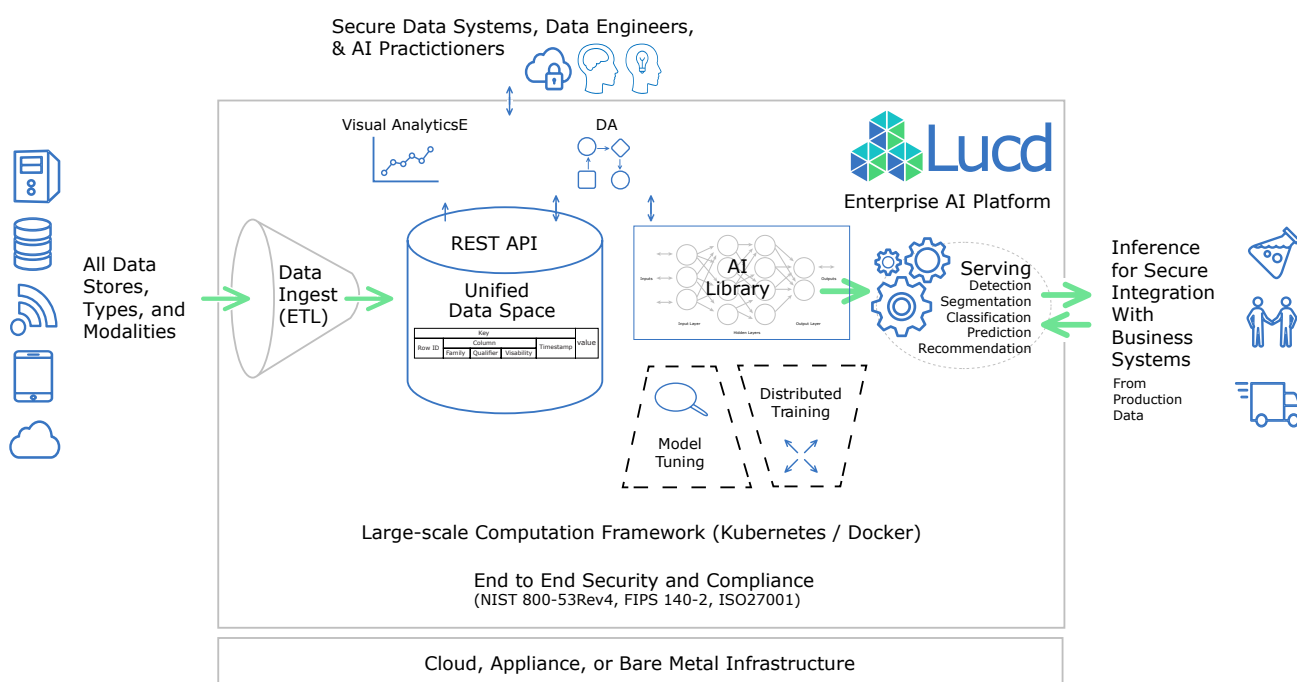
The Platform for AI Innovation

Driving Enterprise AI Success

UNIFIED DATA SPACE

The Lucd Unified Data Space (UDS) provides an indexed NoSQL fused data store with role-based access control to each data element enabling rapid and secure discovery, analytics/model building and application integration leveraging data in the Lucd platform.

PRODUCT ARCHITECTURE



BUSINESSES NEED DATA TO POWER INSIGHTS

In order to digitally transform, businesses need rapid, searchable, controlled and secure access to fused data to build models and provide systems and application enablement from insights derived from that data. The Lucd Unified Data Space is built as the fused data space and leverages Lucene Search/Indexing and Accumulo NoSQL.

LUCENE AND ACCUMULO



Apache Lucene is a high-performance, full-featured text search engine library written entirely in Java. It is a technology suitable for nearly any application that requires full-text search, especially cross-platform. It includes scalable, high-performance Indexing; and powerful, accurate and efficient search algorithms.

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Apache Accumulo is a key/value store based on the design of Google's BigTable. Key features include cell based access control, server-side programming, stability, and scalability.

Dis.ai has been a leader in developing and contributing to the Accumulo open source project.



THE LUCD UNIFIED DATA SPACE PROVIDES THE CENTRAL REPOSITORY OF DATA THAT AI NEEDS

The Lucd Unified Data Space Capabilities include:

- Data Fusion any data type needed for Machine Learning
- Sizes, shapes, forms data into what is needed for model and provides that via connector into the Lucd AI Library
- Rapidly ingest new data sources to get immediate value from the data.
- The UDS constructs both geospatial and temporal indices
- The data is self-describing and the UDS is schema-less
- Fields can be added, modified or removed as needed without affecting the UDS and without requiring human intervention.
- Interaction with the data takes many forms, including applications, work-flows and most commonly, analytics and visualizations. Lucd provides a robust set of APIs to interface with the UDS.
- Lucd automatically preserves the pedigree of the ingested data upon capture and recording to the UDS