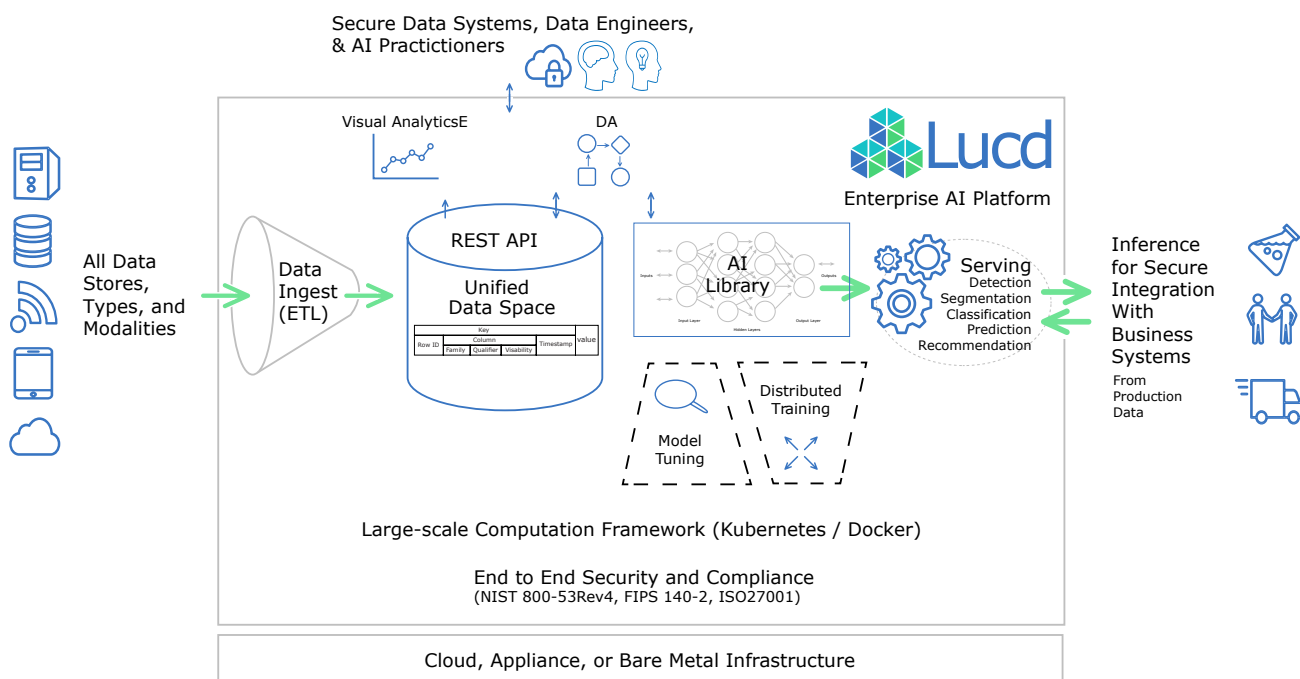# Lucd

The Platform for AI Innovation
Driving Enterprise AI Success

AI LIBRARY

The AI Library provides pre- installed and easy to use Machine Learning/AI software libraries that are used to create AI models. The Lucd AI library provides the most heavily used AI and other Machine Learning libraries and tools that AI innovators use to accomplish creating business value. The AI Library provides rapid time to market with AI, with better results for AI enabled Business Capabilities as well as more effective AI innovators and expanded scope of people capable of creating Business Enabled AI.

PRODUCT ARCHITECTURE

AI LIBRARIES ARE USED TO CREATE MACHINE LEARNING MODULES

Pre-installed and easy to use Machine Learning/AI software libraries are used to create AI models. Machine Learning is essentially software code. AI business value is created by deploying capabilities associated with training that machine learning code to process and learn from data to deliver results (i.e. facial recognition software delivering better customer experience at a retail store). That code is mostly developed with Machine Learning libraries (software tools) that make developing that code doable in business required timeframesnetworks from very large datasets. But, even single GPUs are not sufficient to train many models and datasets, so parallel processing and distributed computing are used.

The Platform for AI Innovation
Driving Enterprise AI Success

AI LIBRARIES NEED TO BE TIGHTLY INTEGRATED TO AN AI PLATFORM

AI/Machine Learning libraries are very powerful capabilities that are often implemented in common programming languages that data scientists typically use like Python and R. But, they are just libraries and while they are typically open source and/or readily available, easily downloadable to install and operate, they do not provide an environment to run these libraries. There are no mechanisms to facilitate ingesting data into a repository from which to run the AI/Machine Learning Libraries. Also, no definition of a secure data store and/or how to handle very large data sets. And while these libraries can be run on servers locally, on your laptop or in the cloud, efficiency, tuning, and horizontal scaling often requires in depth "artwork". The Lucd AI/Machine Learning libraries address all these issues allowing AI Innovators to focus on the business capabilities they are producing and not the environments in which to do efficiently and securely do their work.powerful, accurate and efficient search algorithms. AI Innovators also have the means to quickly explore data resident in the Lucd Unified Data Space to quickly gain insight and critical to efficiently starting AI development pipelines.

.

THE LUCD AI LIBRARY PROVIDES THE INTEGRATED WORKSPACE THAT AI INNOVATORS NEED.

AI Libraries include:
- Integrated Keras and TensorFlow (2Q2018)
- R, RStudio, Shiny
- Gate/Annie