

Datasheet

Operationalize Artificial Intelligence @ Scale

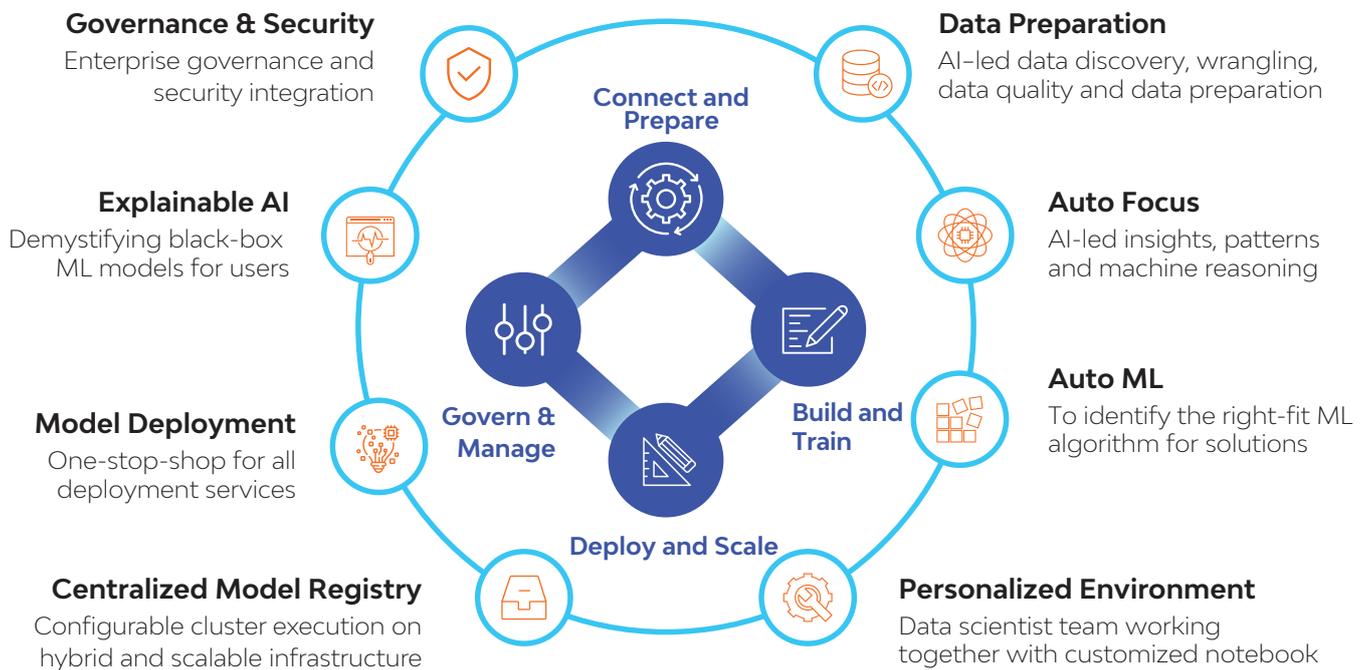
Platform to operationalize and manage enterprise machine learning & artificial intelligence model, helping data engineers and scientists automate the ML/AI Design Lifecycle.

[#DataWrangling](#) [#BusinessRules](#) [#AssistedAnalytics](#)

Faster Development to Deployment of ML & AI Models

LTI's Mosaic AI is a self-served unified analytics platform aimed at automating the ML/AI life cycle to build, train, deploy, and manage AI models at enterprise scale. Mosaic AI provides an abstraction for machine learning DevOps so that data scientists can focus on AI model development and not worry about operationalizing the models. The platform provides Containerized and Reproducible Notebooks/Toolkits, easing the building to performance monitoring of complex models, democratizing AI.

Salient Features



Product Features - Data Prep | Build | Train Deploy | Auto Focus | Run | Govern | Support



Lens: Data Prep

An AI-assisted, point-and-click ability to expedite data preparation and accelerate discovery of insights, overcoming the traditional limitations.

Intuitive Wrangling

Easy data wrangling with a simple no-code and intuitive interface. Simplified data harmonization and data enrichment with in-built sampling techniques, AI-assisted data quality checks, auto-feature generation, anomaly detection etc.

Pre-built Data Processing Steps

Extensive library for processing all structured, semi and unstructured data. Filter and search on data made simple; history of saved searches stored for instant results.

Data Profiling

Auto schema and data format detection – with a quick view of data at every step of wrangling. Automated data-profile-assist to highlight qualitative features such as distribution, value frequencies, missing/unique values etc.

Assisted Data Quality

Data quality indicators and metrics such as validity, completeness, consistency etc. for users to explore the usability of data. Intelligent recommendations for potential data enrichment at each step.

Functions Library

Robust library of 200+ pre-built functions to accelerate data preparation.



Build & Collaborate

Multiple users accessing and co-building the ML model codes and algorithms using the same notebooks or multiple notebooks

Data Connection Library

Collate data from varied sources using connector libraries embedded within the platform

Personalized Notebooks

Notebooks with prebuilt ML libraries and customized with choice of libraries or custom code

Containerized Notebooks

Notebooks with configured container size allows to allocate resources dynamically upon initiation

Share Notebook across developers

Collaborate by sharing customized images, registered models & services



Register & Train

Register & train ML models via GUI or directly from notebook using pre-built Mosaic AI libraries

Model Registry	Register ML/ AI models using graphic user interface or from notebooks using pre-built mosaic libraries
Bring Your Own Code (BYOC) & register	Models built outside the Mosaic platform can be registered using the prebuilt integrated mosaic libraries
Automated ML Development Module	AutoML to identify the right-fit algorithm for the solutions implemented with Dashboards for Model Status Visibility easing the model creation
Lineage & Versioning	Manage all trained models in one place, with different versions and lineage of each version back to source code, training logs and training summary
Multiple Model Development Options	Model Creation on R Studio, Apache Spark, VSCode, RStudio, Jupyterlab and others besides the previous toolkits Jupyter and Zeppelin
Visual ML/AI Building & Optimization	UI-based design and ML workspace with a centrally managed enterprise platform. Provision to compare multiple algorithms for supervised/unsupervised training. Instant assessment and management of model's performance through detailed metrics.



Deploy & Consume

One-stop-shop to package and deploy ML / AI models of various frameworks, languages as a webservice.

Integrated library to Package & Deploy models	Mosaic libraries integrated within notebooks to package and deploy any model as a webservice.
Hybrid Deployment	All deployment services to package and deploy any model version on highly scalable and secure
Change Management	Manage all model versions of registered and deployed models on the platform. Track source code versions with direct integration of notebooks with GIT.
Secure & Scalable API	Trained models are registered and packaged and deployed as web service on K8s clusters.
Consumption Management	Manage model instrumentation / metrics such as - Invocation matrix, accuracy matrix, version matrix, AB matrix, scoring matrix.



Auto Focus

AI-led trustable auto-insights across all data

Autonomous Insights Generation

Rapidly uncover patterns, segments, advance profile, intelligent data type, anomalies, and insights across the data. Analyze data proactively using advanced algorithms.

Outliers and Anomalies

Automatically discover various anomalies and outliers within the data -using identified important attributes affecting specific KPIs.

Machine Reasoning in Natural Language

Leverage narrative engine to interpret the findings in data and provide natural language explanations.

What-if Simulations

Discover key attributes affecting the KPI. Explore what-if simulations to decide next best business actions.

Signals & Alerts

Manage all trained models in one place, with versioning and lineage of each version back to source code, training logs and training summary.



Environment & Governance

Govern, manage and monitor the enterprise ML / AI model portfolios.

Set up & Manage Hybrid Environment

Install the framework on a K8 cluster onto any cloud or on-premise infrastructure.

GPU Support

Execute and train deep learning models using GPUs cores and hardware.

Auto Scaling

Models registered on the platform are deployed on highly scalable K8s clusters.

SModel Access

Fine grained access control on models and integration with enterprise LDAP / AD to manage users, user groups, user attributes, roles and actions.

GIT Integration

Captures every change and code version to GIT allowing the users to revisit the version history or revert to any previous versions as needed.

Visibility Of Model Lineage

Automatic tracking of ML lifecycle allows users to track and have complete visibility across ML/AI Model Portfolio

Explainable AI

Dashboards that allow users to understand black-box ML models

Data & Catalog

Discovery engine with faceted search to explore data. Manages availability, usability, integrity and security of data & analysis within enterprise.



Runtimes, Frameworks & Extensibility

Integration with various ML programming languages and frameworks

ML Runtimes	Support for ML programming languages
ML Frameworks	Support for ever-evolving ML frameworks for ML and deep learning model development
Bring Your Own Model (BYOM)	Automated ML or the R or Python codes can be converted into an app allowing to bring-your-own-model to register and deploy ML/AI models on the platform

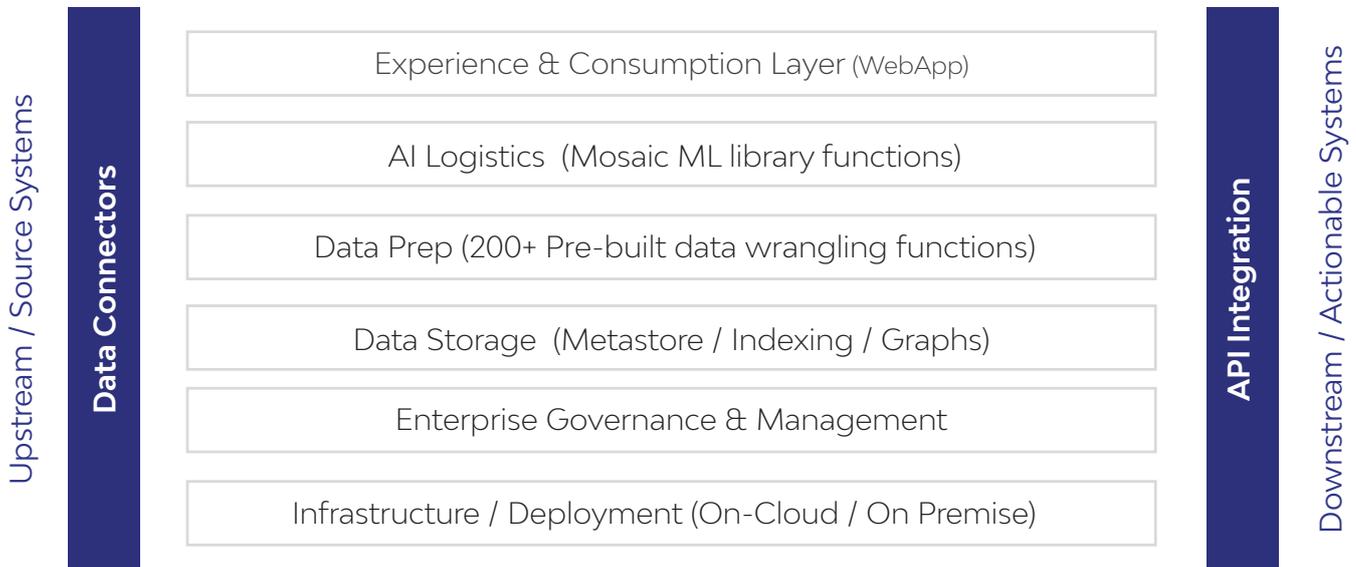


Support

24X7 Platform Support with defined SLAs

Bug Support	Free 24 x 7 support to resolve platform bugs and issues.
Upgrades	Free and planned platform flavor upgrades.

Product Architecture



Deployment Options

Flexibly deploy on cloud or on-premises



mosaic ai

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Request a Demo @ <https://mosaic.lntinfotech.com/>

LTI (NSE: LTI) is a global technology consulting and digital solutions Company helping more than 460 clients succeed in a converging world. With operations in 33 countries, we go the extra mile for our clients and accelerate their digital transformation with LTI's Mosaic platform enabling their mobile, social, analytics, IoT and cloud journeys. Founded in 1997 as a subsidiary of Larsen & Toubro Limited, our unique heritage gives us unrivalled real-world expertise to solve the most complex challenges of enterprises across all industries. Each day, our team of more than 40,000 LTIites enable our clients to improve the effectiveness of their business and technology operations and deliver value to their customers, employees and shareholders. Find more at <http://www.lntinfotech.com> or follow us at @LTI_Global.