

# IKTARA AI PLATFORM

Democratize AI and make cutting-edge ML techniques available to all.

## AI Orchestrator

AI Orchestrator coordinates deployment, integration, and interaction of AI workloads across nodes in the cluster. This includes orchestrating AI models, managing data flow, and allocating and monitoring of computing resources.

## Distributed Machine Learning

ML algorithms are becoming complex and their training and inference tasks now need multiple GPUs. Distributed ML involves utilizing varied parallelism techniques to use distributed computing resources.

## Intelligent Data Federation

Intelligent data federation involve support of data pipelines to ingest data from variety of data sources, data of various type and formats, processing and storing them across structured, columnar, vector or file store.

## Mega Model Store

Mega Model store include extensive range of ML algorithms that offers flexibility in solving diverse real-world challenges, from predictions and pattern recognition to autonomous decision-making.

## GenAI RAG Engine

Generative AI RAG (Retrieval Augmented Generation) engine enables building production ready LLM applications that extends capabilities of foundation models by providing new or proprietary context information to foundation LLM models.

## Diverse Deployment Options

Solution offers a range of diverse cloud options tailored to different business needs, including private cloud, public cloud, edge cloud, and high-performance computing (HPC) clusters.



### Autonomous Network Solution

Transforming telecom network to Intent driven autonomous network  
Transit Advertising



### RAN Intelligent Control

Enable AI powered RAN for 5G and 6G networks



### Cognitive Finance Solution

Supercharge AI and ML adoption in financial institutions

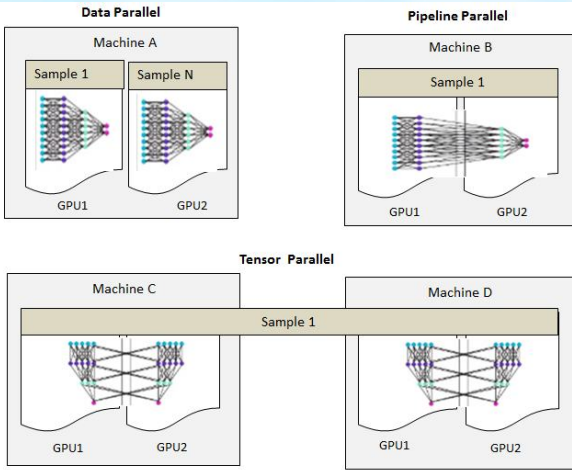


### Retail Analytics Solution

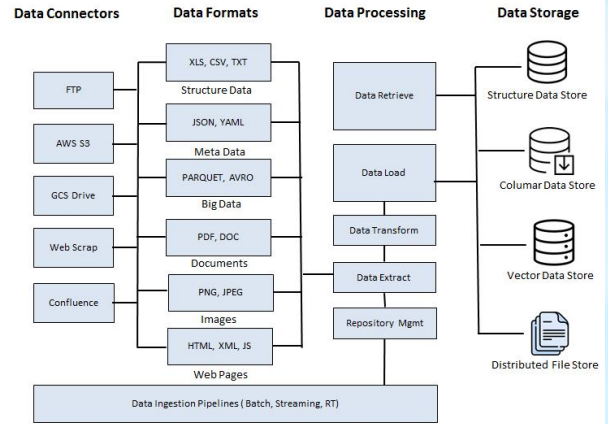
Streamline adoption of AI algorithms across use cases in retail industry

# Solution Features

## Distributed Machine Learning



## Intelligent Data Federation



## Mega Model Store

### Text LLM Models

Chat GPT  
BERT  
Llama3.1

### Computer Vision Models

ResNet  
Yolo  
Segment Anything

### Multi Mode LLM Models

LayoutLM  
LayoutLMv3  
Donut

### Time Series Models

ARIMA  
Prophet  
DeepAR  
S-ARIMA

### Causal Models

Linear DML  
Non Param DML  
Causal Forest DML  
Causal Forest DML

### Reinforcement Models

Soft Actor Critic  
Deep Policy Gradient  
Multi Arm Bandit  
Deep QN

### Supervised Models

Neural Network  
XGBoost  
LGM  
Logistic Regression

### Supervised Unbalance Models

Neural Network-UB  
XGBoost-UB  
LGM-UB  
Logistic Regression-UB

### Anomaly Models

Anomaly-One time SVM  
Anomaly-Isolation Forest  
Anomaly-Local Outlier

## GenAI RAG Engine

