LTI
Let's Solve

mosaic agnitio

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One of the fastest Cognitive Information Mining Platforms, Agnitio is a Versatile AI-driven data extraction framework for intelligent business process automation, driving value from data in documents and images.

#BusinessProcessAutomation #UnstructuredData #DeepLearning

Today, businesses and organizations find themselves overwhelmed by the huge volumes of data often in unstructured formats such as image, PDF, and Doc that they generate. Analyzing and processing such data manually is laborious and prone to errors. Further, the complexity and variety of formats make information extraction further difficult and expensive.

LTI's Mosaic Agnitio is a data extraction framework that offers cognitive services to extract data from documents in PDF, DOC, DOCX, XLS, and XLSX formats, as well as images in TIFF, JPEG and PNG formats. Tabular data from documents and images can also be extracted in structured formats such as CSVs.

Mosaic Agnitio leverages Artificial Intelligence and Deep Learning to process the unstructured data which is generally inaccessible and not easy to process. Mosaic Agnitio facilitates building data extraction solutions contextual to a business domain by leveraging specialized AI models. This framework encourages smarter business process automation and complements conventional RPA driven approach.

Abilities Enabling Intelligent Business Process Automation

Text Extraction
Data can be extracted from PDF, DOC, DOCX, XLS, and XLSX Images - TIFF, JPEG, and PNG

Tabular Data Extraction
Extract tabular data from documents as What You See Is What You Get

Solution Blueprinting
Solution for document processing can be setup using cognitive and other processing functions

Sandbox to Production
All in one 'Solution' based approach for designing to training to execution

Built-in AI Model Tutoring
Tutoring interfaces for ensemble of cognitive services for business to impart knowledge

Open Integration with Upstream and Downstream
Data Ingestion from a variety of sources and API integration with downstream systems available

Multiple Language Detection
Eases process automation for Global MNCs by recognizing and extracting data from 20+ European Languages

Product Features

Cognitive Information Mining Framework

Mosaic Agnitio is built on a foundation of Cognitive Information Mining Framework which offers versatility to handle variety of unstructured data. Information Mining solutions can be set up easily to process documents and images at scale.

Solution Configuration
Configure the solution with ensemble of cognitive services and extraction mechanism, train data extraction services and launch the solution for users.

Document Conversion Utility
Save spends on expensive OCR engines as Mosaic Agnitio offers utilities to convert non-image-based PDFs without using any OCR.

OCR Integration
Images can also be processed easily by integrating with on-premise or on-cloud OCR engines. Mosaic Agnitio provides plug-and-play integration with best in class OCR Engines.

Cognitive Processing
Ensemble of models trained can be executed on a variety of documents for information mining.

Solution Execution
Process the documents in batch or in an interactive mode. Expose APIs on the solution for integration with RPA or with custom built user interface.

Data Connectors
Connectors to enterprise data sources such as S3, BLOB, File systems etc. available with the framework to ingest unstructured data.

AI Logistics
Mosaic AI Logistics, integrated with the Agnitio framework, provides scalability to build, deploy, retrain and execute AI models.

Data Export
Extracted data can be downloaded in JSON or CSV format for downstream consumption. Tabular data can be extracted in bulk in CSV format.

Enhanced Tabular Data & Rule-Based Extraction
What You See Is What You Get format AI-driven data extraction service for documents. Mosaic Agnitio can extract data from tables – with or without boundaries for faster solution configuration.

Cognitive Services for Data Extraction

A suite of Artificial Intelligence services to help extract data from unstructured documents. User can impart their business knowledge to train machine to process the documents and images

Name Entity Recognition	Extract text from data elements such as paragraph, key-value pairs, data available in header-footer etc.
Classification (Documents/Image/ Content)	AI-based classification service to classify documents, images, or content. Once the classification model is trained, it can be used in the data extraction workflow. Classification can be trained on bulk documents, with minimum interactions.
Object Identification	Documents and Images with complex data structures and templates need zonal OCR. Mosaic Agnitio provides object identification AI service to identify the 'areas of interests' with Object Identification AI service.
Cognitive Reading Of New Extensions	Reading of unstructured documents with new extensions supported (XLS, Word, etc.) besides PDF & Images

Train as you Go

Train machine on different cognitive services such as document classification and name entity recognition for adaptive extraction easily without the involvement of data scientists

AI Tutor	Label the data to train the machine on various cognitive services through user-interface. An ensemble of AI models can be trained with ease.
Training/ Re-training	Train and Tune AI models iteratively using user interface – foolproof way which does not require data scientist's knowhow.
Feedback	Provide feedback to AI models by labeling or deleting predicted entities on the job while processing the documents.
Continuous Learning	Continuous learning on the job on the user feedback. Data extraction accuracy increases as more and more documents are processed.

Integrated Verification Station

Integrated verification function that can be embedded in any data extraction solution built using the framework.

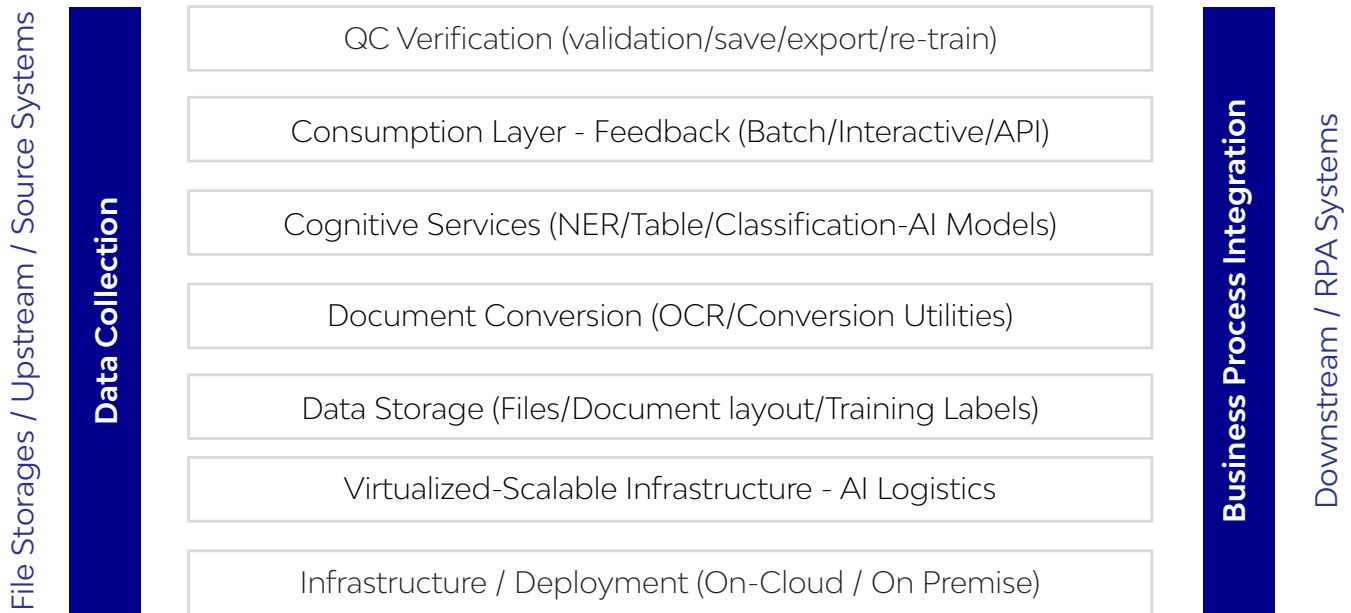|	
Document Layout	QC forms can be personalized using document layout configurations. Provision to setup the QC form with entities, repeating sections in the document (groups and nested sub-groups) to make the QC process intuitive.
Validations	Automated validation setup that highlights discrepancies pro-actively in the QC form. Validations such as mandatory values, drop-downs, range of values, numeric, and alpha-numeric can be configured.
Edit-in-place	Enrich the data by edit-in-place for downstream consumption.
Intuitive QC Form	Integrated QC to visualize your document as it passes through the various stages of processing: original document, converted text, extracted entities are all shown side by side for traceability.

Product Architecture –

File Storages / Upstream / Source Systems

Data Collection

QC Verification (validation/save/export/re-train)
Consumption Layer - Feedback (Batch/Interactive/API)
Cognitive Services (NER/Table/Classification-AI Models)
Document Conversion (OCR/Conversion Utilities)
Data Storage (Files/Document layout/Training Labels)
Virtualized-Scalable Infrastructure - AI Logistics
Infrastructure / Deployment (On-Cloud / On Premise)

Business Process Integration

Downstream / RPA Systems

Deployment Options

Flexibly deploy on cloud or on-premises

aws	Azure	Google Cloud	On-premise

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A versatile AI-driven data extraction framework for documents and images

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

LTI (NSE: LTI, BSE: 540005) is a global technology consulting and digital solutions Company helping more than 420 clients succeed in a converging world. With operations in 32 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 unrivaled real-world expertise to solve the most complex challenges of enterprises across all industries. Each day, our team of more than 30,000 LTItes 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 www.Lntinfotech.com or follow us at @LTI_Global

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