



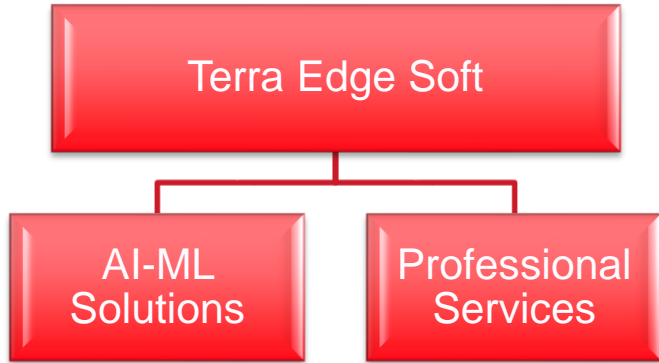
Terra Edgesoft
AI- ML Capability Profile
August -2022



About Our AI Group

At Terra Edgesoft our AI – ML – NLP Group is focused on carrying out basic research and create platforms which are benchmarked against existing references. We have team of expert mathematicians, researchers and software scientists to address client need

Global Presence



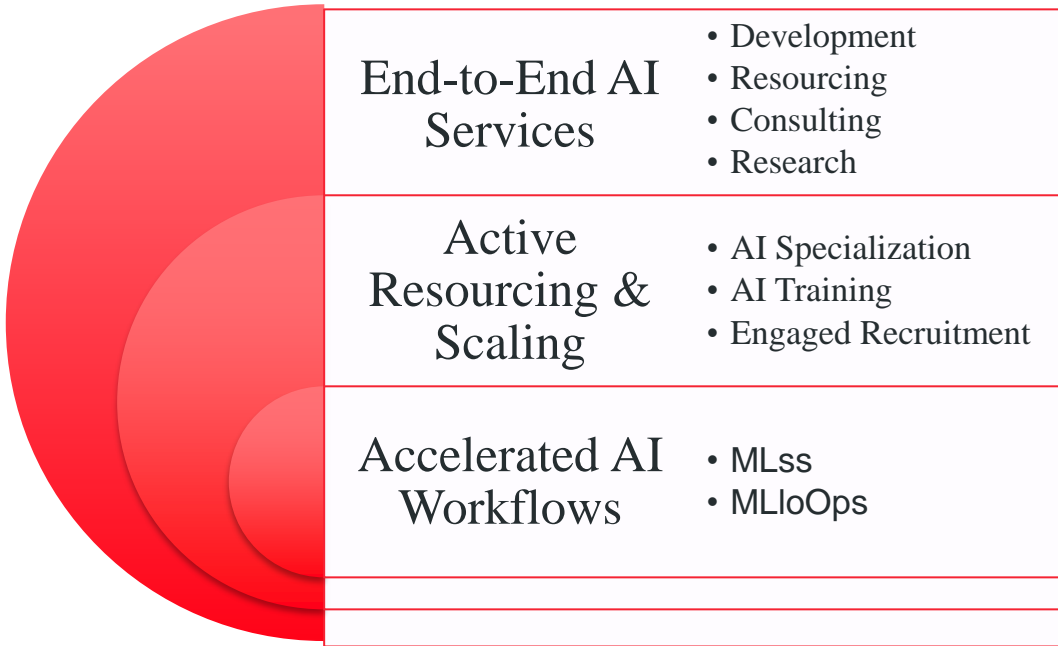
Terra EdgeSoft Office

- Terra EdgeSoft Private Limited, India, UAE
- Simplex Solutions Private Limited, Japan

Business Associates / Representatives

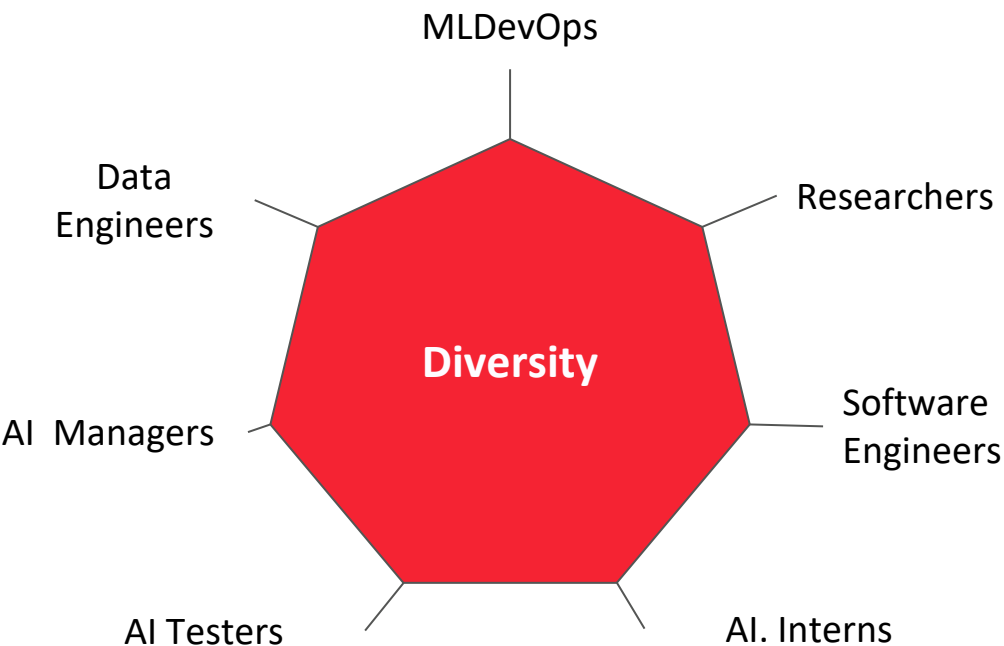
- North America : Canada, USA
- Middle East/North Africa :Dubai, Oman, Afghanistan, Tanzania, Egypt, South Africa, Nigeria. Congo(DRC), Senegal, Kenya, Turkey
- Asia / Pacific : Sri Lanka, Bangladesh, Nepal, Myanmar
- Australia/ NZ : Australia
- UK & Europe

AI Offerings



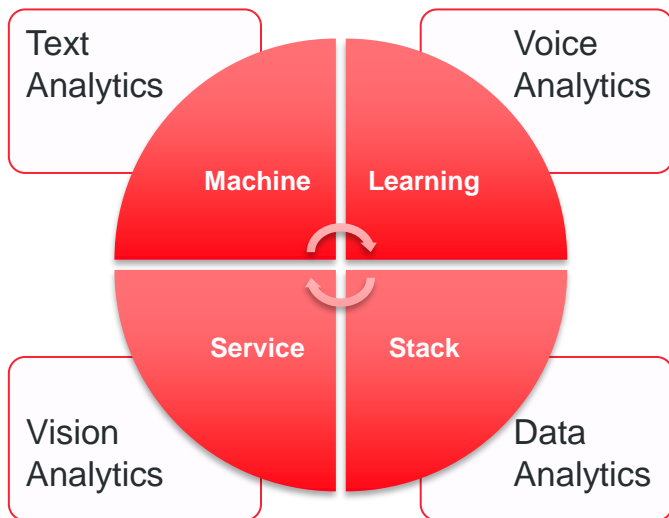
- Formulated active learning platforms with 3 AI research centers for resourcing high skills at scale.
- Flexible to provide end-to-end AI services for delivering client specific needs.
- Owning in-house AI platforms (MLss & MLloOps) for optimizing (Effort & Cost) the AI workflows.

Team Background



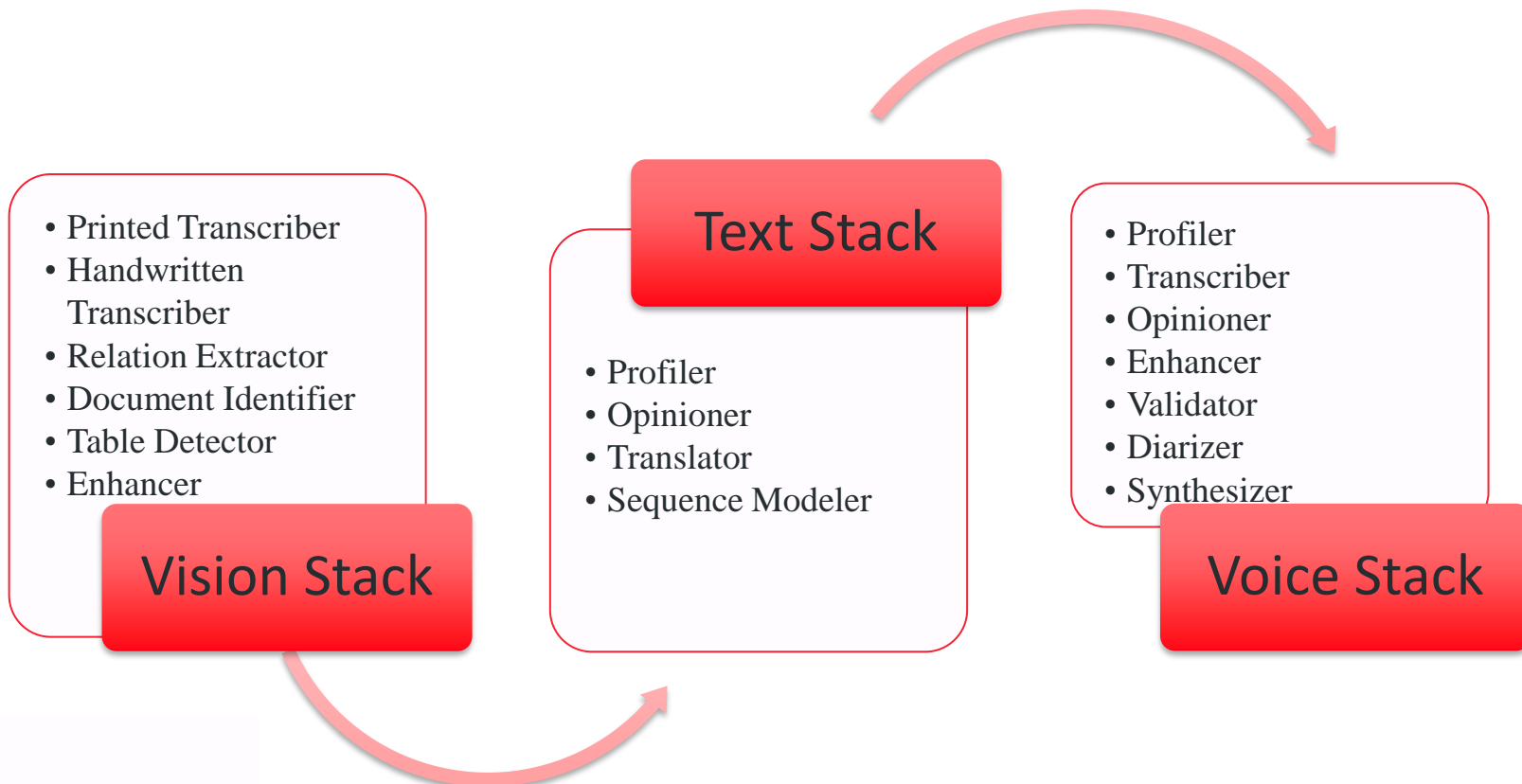
Experience	1 to 10+
Foundation	100% Masters, 30% PhD
AI Skills	Data Collation, Conventional Machine Learning, Deep Learning, Interpretations, Model Serving and Visualization
Language	Python, R, Java, SQL and Matlab
Cloud	AWS, GCP and Azure
Cloud AI	Google Cloud AI, Azure AI and AWS AI
Distributed	Hadoop and Spark

MLSS



- Structure the Unstructured Data in any format (Text, Audio, Image, Video and Numbers).
- Consume benchmarked data-driven model for application of you interest.
- Effortless customization & Easy Integration.
- Stay ahead with model's continuous learning and training capabilities.

APIs at MLss



MLloOps Quantitative Benchmarks

Speech-to-Text

Developers	WER
Facebook AI	2.0
Google	1.9
ours	1.3

Text Detection

Developers	F1
Microsoft Azure AI	96.58
360 DigiTech AI	97.74
ours	98.83

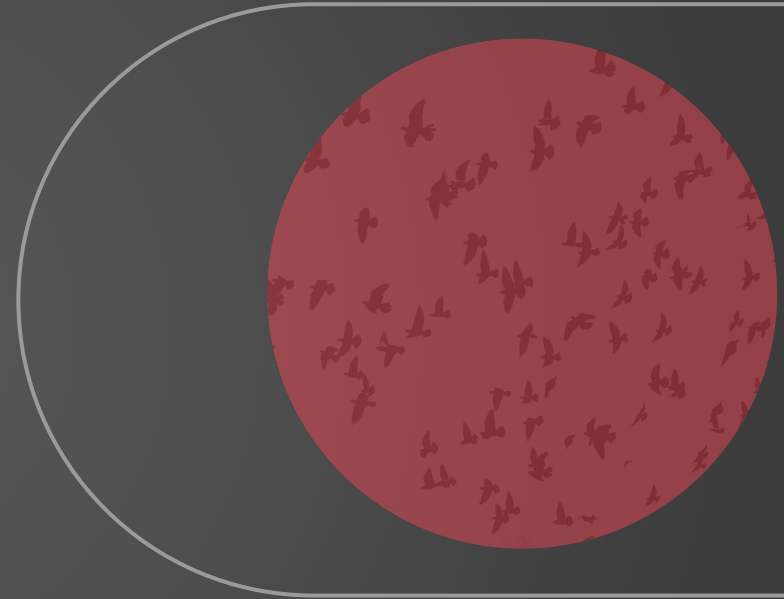
OCR

Developers	CER
Microsoft Azure AI	2.89
Google	2.75
ours	1.96

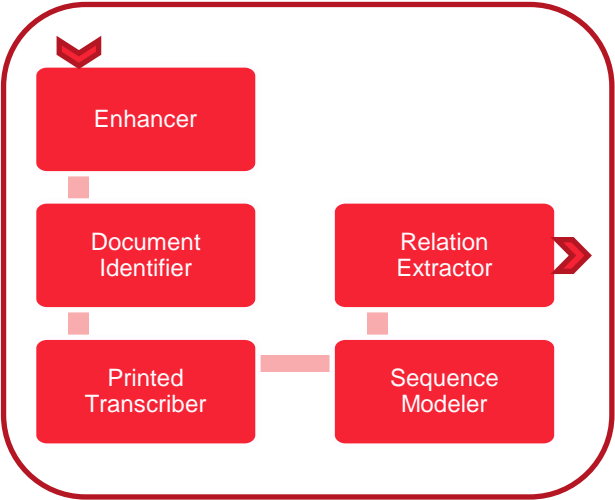
Text Opinioner

Developers	Accuracy
Microsoft Dynamics 365 AI	97.5
Google	97.4
ours	98.1

Typical Use Cases



Use Cases : Form-in-Sights



CommArea_Name	CommArea_Num	Area_KM	community_area_clean
1 KENWOOD	39	2.700750	Rogers Park
2 LINCOLN SQUARE	4	6.628739	West Ridge
3 HYDE PARK	41	4.190262	Uptown
4 WOODLAWN	42	5.370997	Lincoln Square
5 ROGERS PARK	1	4.762104	North Center
6 JEFFERSON PARK	11	6.026453	Lake View
7 FOREST GLEN	12	8.280517	Lincoln Park
8 NORTH PARK	13	6.529976	Near North Side
9 ALBANY PARK	14	4.974190	Edison Park
10 PORTAGE PARK	15	10.237543	Norwood Park
11 IRVING PARK	16	8.325097	Jefferson Park
12 DUNNING	17	9.624357	Forest Glen

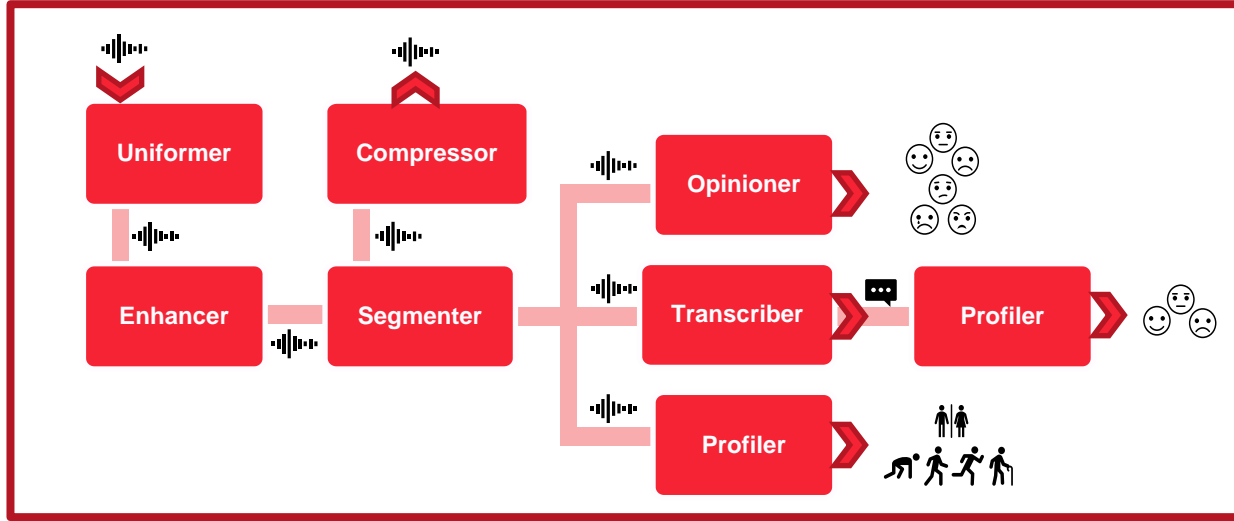


Unstructured Data

MLs & MLOps

Structured Information

Use Cases : Voice-in-Sights

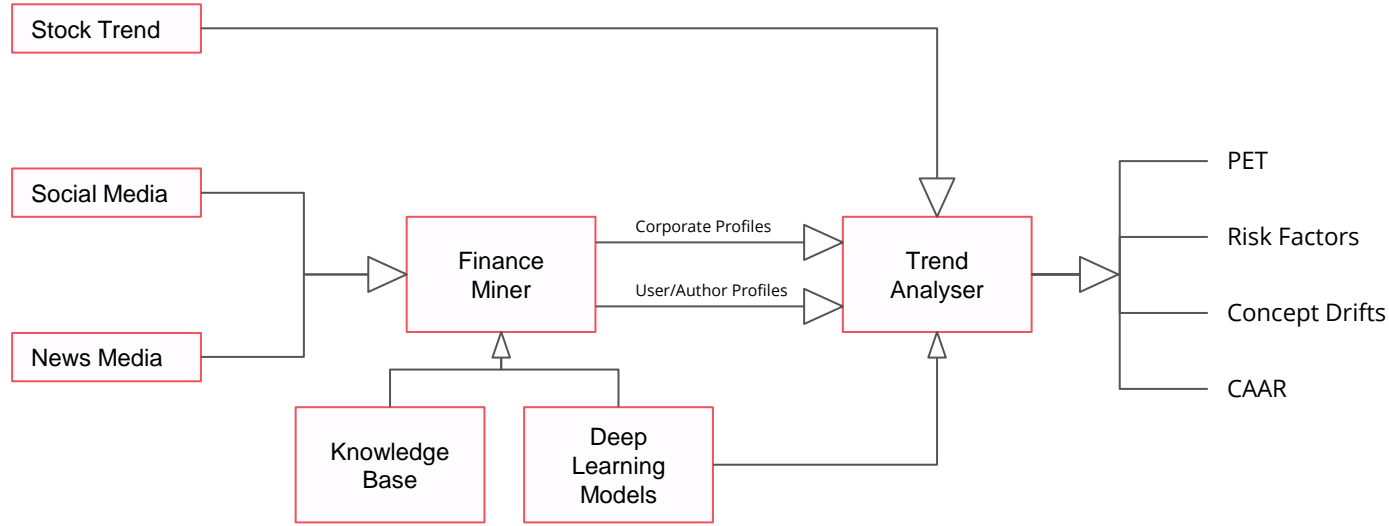


Unstructured Data

MLss & MLloOps

Structured Information

Social-Profiling

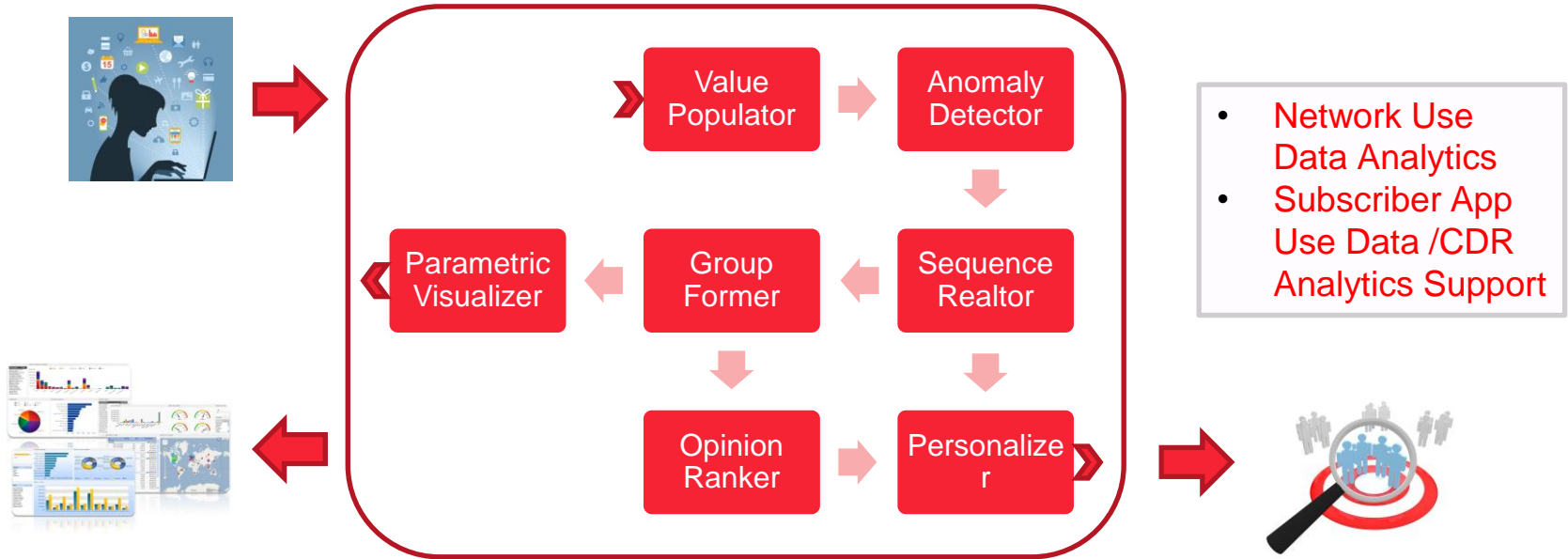


Unstructured Data

MLs & MLOps

Structured Information

Log-in-Sights

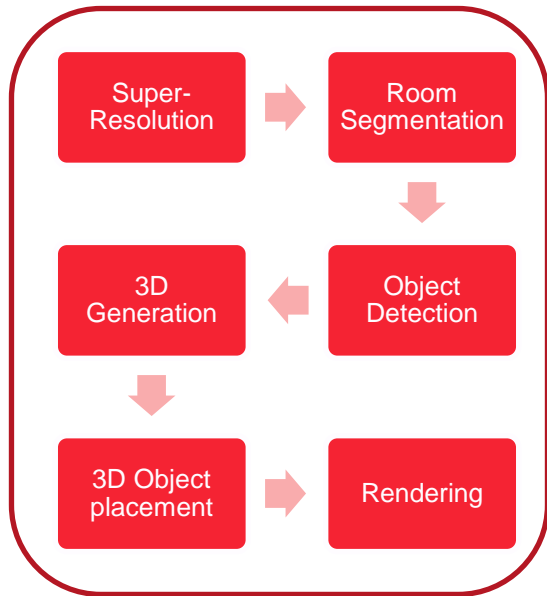
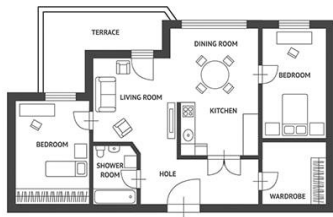


Unstructured Data

MLss & MLloOps

Structured Information

FloorPlan-in-Sights

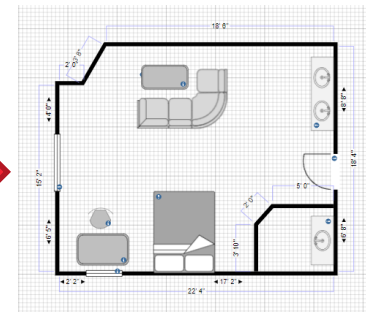
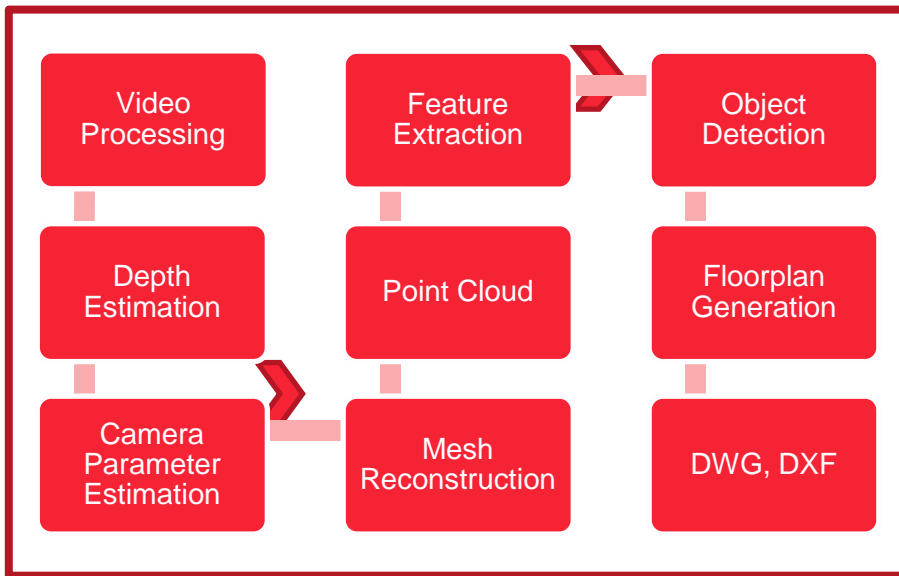


Unstructured Data

MLss & MLloOps

Structured Information

PointCloud-in-Sights

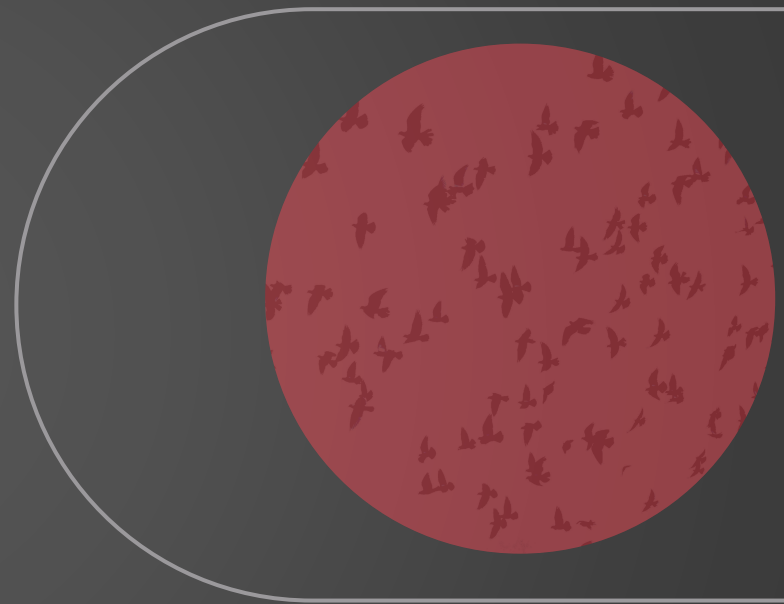


Unstructured Data

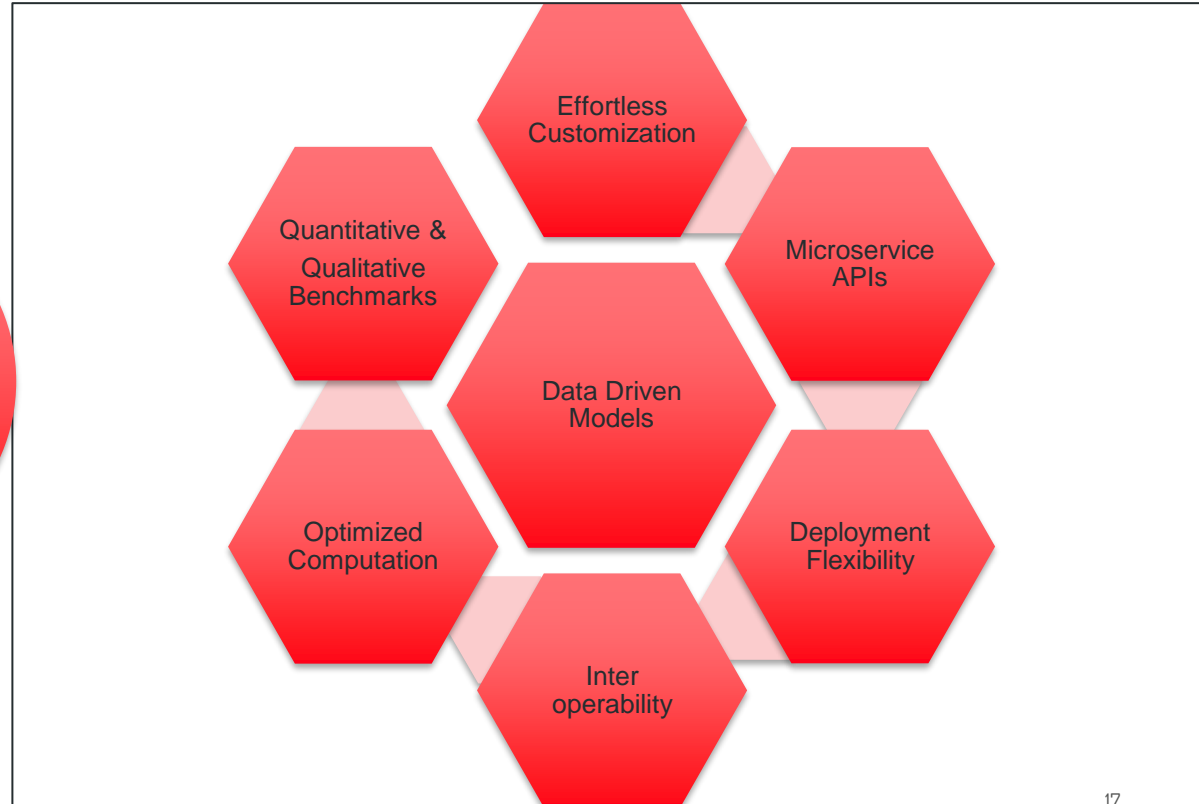
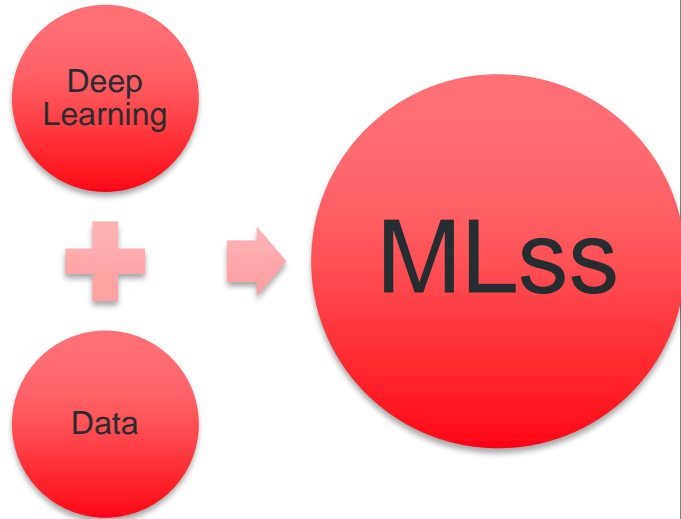
MLss & MLloOps

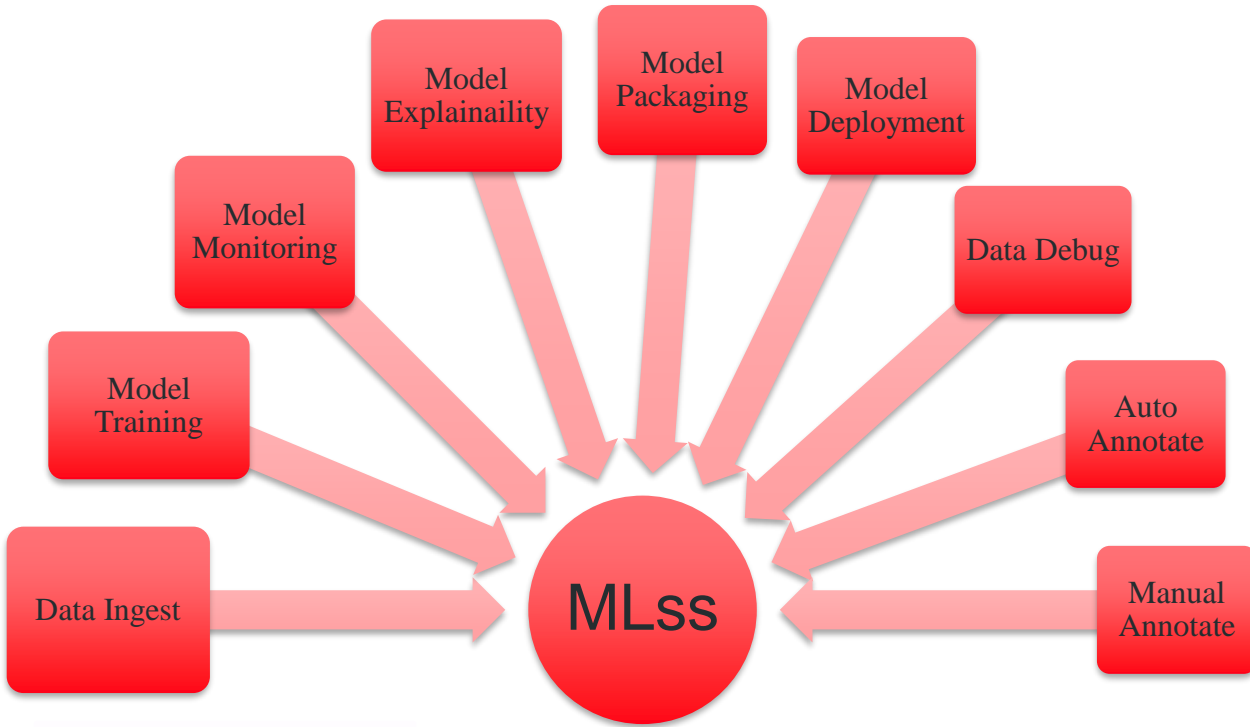
Structured Information

MLloOps Development Platform



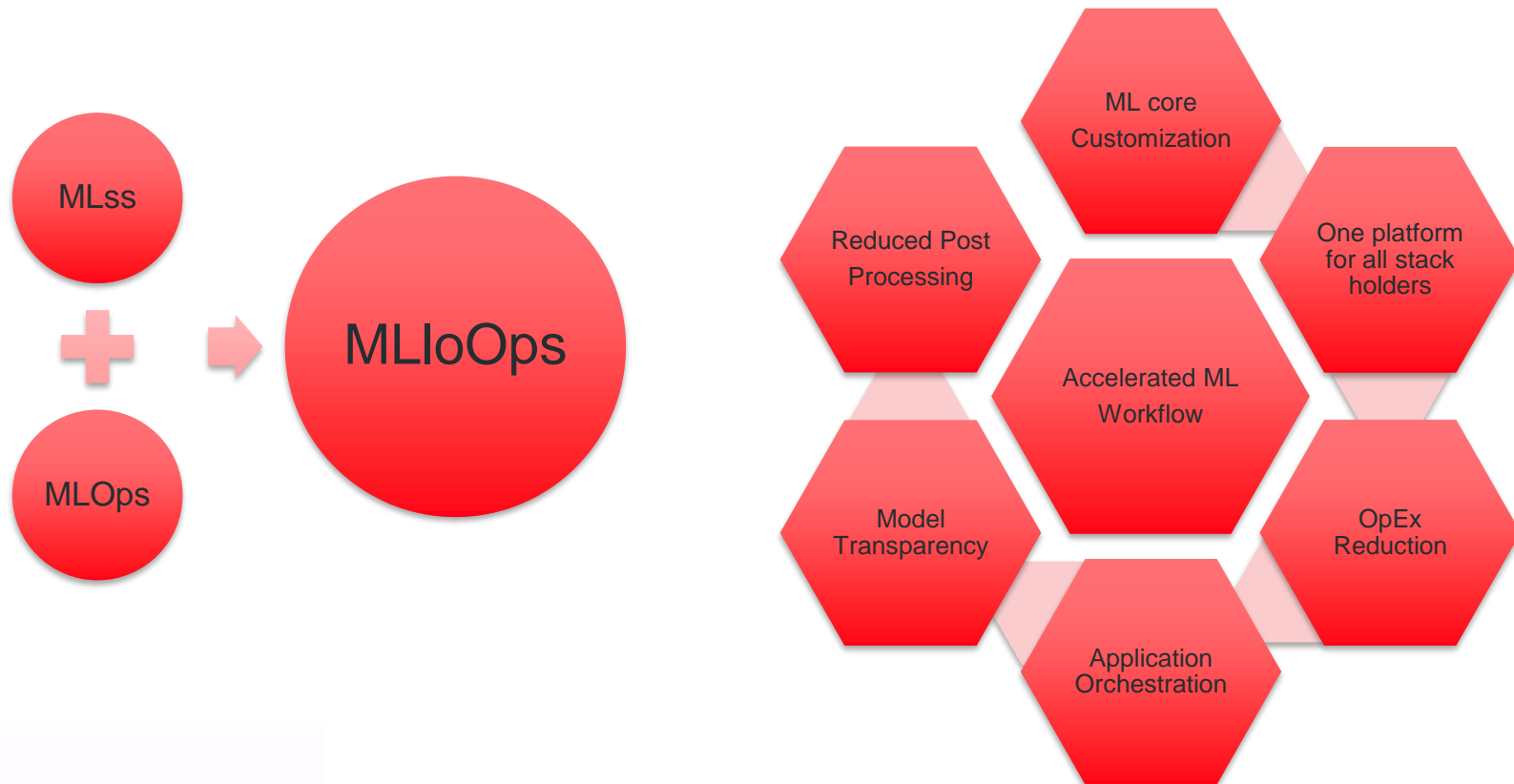
MLss: Benefits





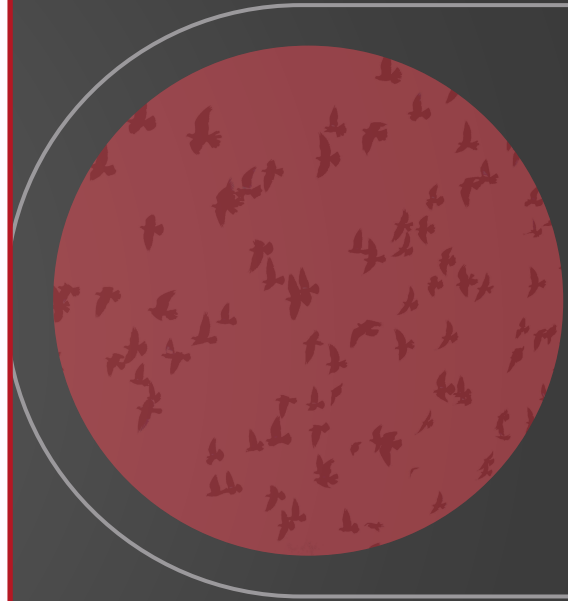
- Collaborative & Customizable code-less end-to-end AI software development platform.
- Customize benchmarked data-driven model from our MLss for Vision-Voice-Text-Data Analytics.
- Annotate, Debug, Train, Monitor, Test, Package & Deploy at single place.

MLloOps: Benefits



Data Analytics and Data Science -Domain Knowledge

Domain	Tasks	Applications
Text	Text Classification	Sentiment Analysis, Intent Classification
	Named Entity Recognition & Relation Extraction	Information Extraction, Data Augumentation
	Text Classification, Named Entity Recognition & Relation Extraction	Chatbots, Question Answering systems
	Text to Text	Type a head, Grammer Correction, Decoder for OCR & Speech to Text, Machine Translation
Image	Image Classification	Face , Form layout , Cheque type , Form type identification, Emotion Identification
	Object Segmentation	Separation of floors, Separation of backgrounds
	Object Detection	Geometrical Shape , Machining feature, Number plate, Face Detection, Floor Plan , Pose Estimation
	Image to Text	Handwritten and Printed Text Recognition
	Image to Image	2D to 3D imaging, Video to Point Cloud Conversion
Speech	Speech to Text, Speaker Diarization	Extract text from the speech signals
	Text to Speech	Generate Speech Signal from the text
	Speech Classification	Sentiment and Emotion Recognition, Speaker Recognition, Key Word Spotting
	Speech to Speech	Noise Removal, Voice Cloning
Numeric	Recommendation System	Recommendation Engine
	Visualization	Data Visulaization, Inference Justification, Feature Importance
	Sequence Analysis	Fraud Detection, Anti Money Laundering, Stock Market Prediction, Vibration Analysis



Partial List of Customers



Thank You