



# Terra Edgesoft AI- ML Capability Profile

June 2025

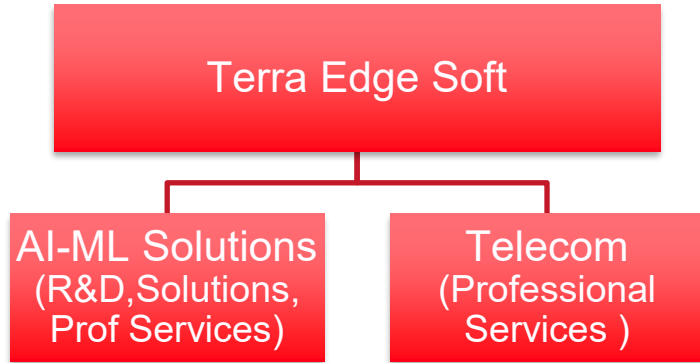


## About Our AI Group

*At Terra Edgesoft, our AI, ML, and NLP Division is dedicated to conducting foundational research and developing cutting-edge platforms that rival leading service providers in the industry. Our team comprises expert mathematicians, researchers, and software scientists, all committed to delivering tailored solutions that meet our clients' unique needs.*

# Global Presence

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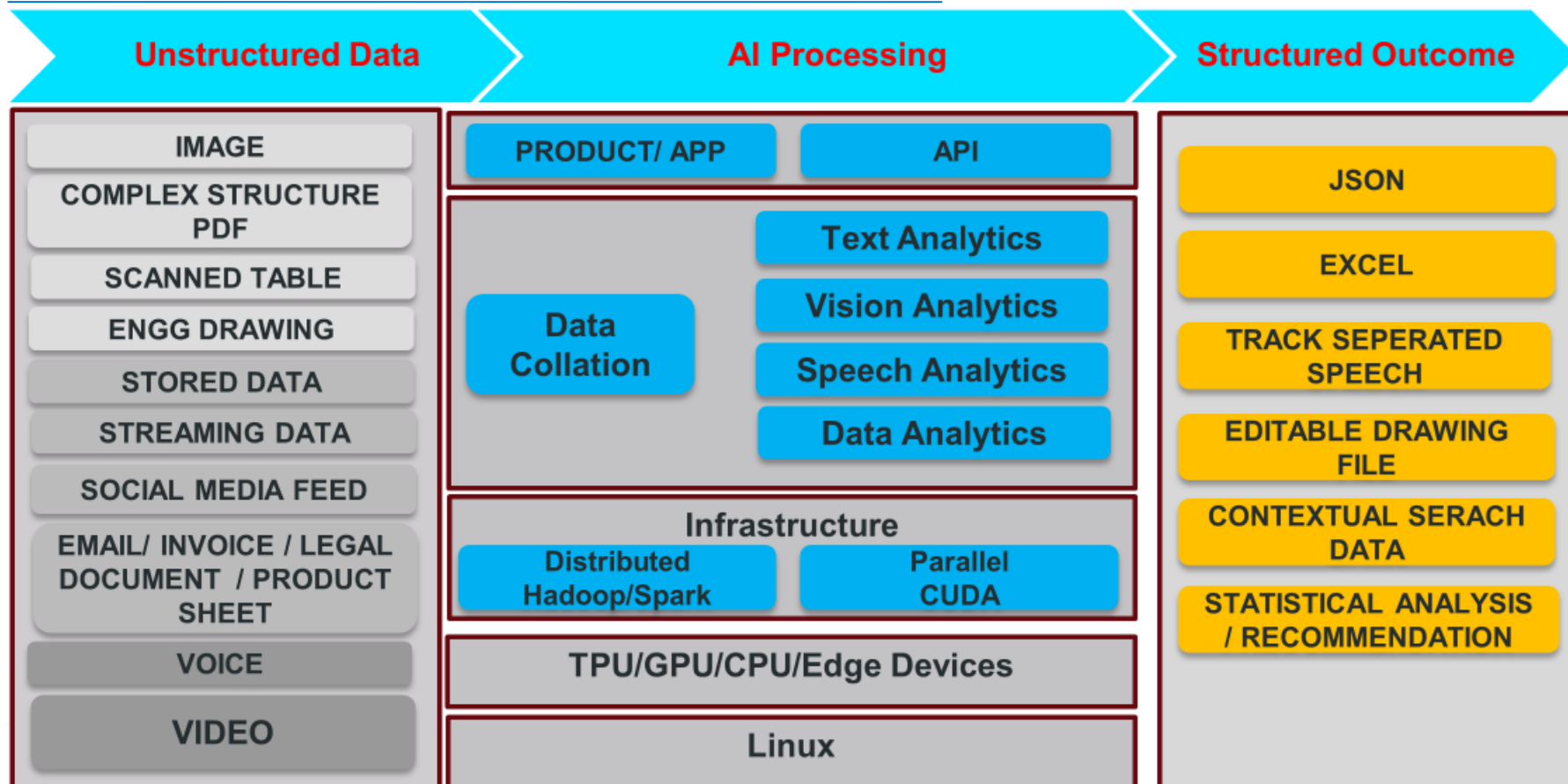


## Terra EdgeSoft AI-ML Business Presence

- Terra EdgeSoft Private Limited, India,
- Terra Edgesoft FZE, UAE
- Design and Development Centre : Coimbatore, India
- Sales & Marketing Representation : North America / Europe

[www.terraedgesoft.com](http://www.terraedgesoft.com)

# Capability Summary



# Some Use Cases

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# Use Cases : Form-in-Sights

**Consistently Extracting Large Size PDF File Data with very high accuracy**

IGM No : 2296271/14/11/2021 Port Of Loading : Umm Al Qaiwain  
Cntry Of Orgn : UNITED ARAB EMIRATES Cntry Of Consign :  
BL No : 110001 H/BL No :  
Date : 08/11/2021 Date :  
No. Of Pkgs : 1 UNT Gross Wt. : 556.000 MTS  
Marks: TUG DMS TOUCAN IN TOW WITH ORHAN VELI  
& Nos

Report

Original: (Country: UGAE)  
Export: (Country: UGAE) (Port: UGAE) (Date: 15/08/2021)  
BL No: 110001 H/BL No: 110001  
Date: 08/11/2021 Date: 08/11/2021  
No. Of Pkgs: 1 UNT Gross Wt: 556.000 MTS  
Marks: TUG DMS TOUCAN IN TOW WITH ORHAN VELI  
& Nos

Enhancer

Document  
Identifier

Printed  
Transcriber

Relation  
Extractor

Sequence  
Modeler

JSON output

```
{
  "IGMNo": "2296271/14/11/2021",
  "PortofLoading": "Umm Al Qaiwain",
  "CntryofOrigin": "UNITED ARAB EMIRATES",
  "CntryofConsgn": "",
  "BLNo": "110001",
  "H/BLNo": "",
  "Date": "08/11/2021",
  "NoofPkgs": "1 UNT",
  "GrossWt": "556.000 MTS",
  "Marks": "TUG INTOW WITH ORHAN VELI"
}
```

Excel or CSV

	A	B
1	IGM No:	2296271/14/11/2021
2	Port of Loading	Umm Al Qaiwain
3	Cntry of Origin	UNITED ARAB EMIRATES
4	Cntry of Consign	
5	BL No.	110001
6	H/BL No.	
7	Date:	08/11/2021
8	No. of Pkgs	1 UNT
9	Gross Wt.	556.000 MTS
10	Marks	TUG INTOW WITH ORHAN VELI

Digital PDF

Unstructured Data

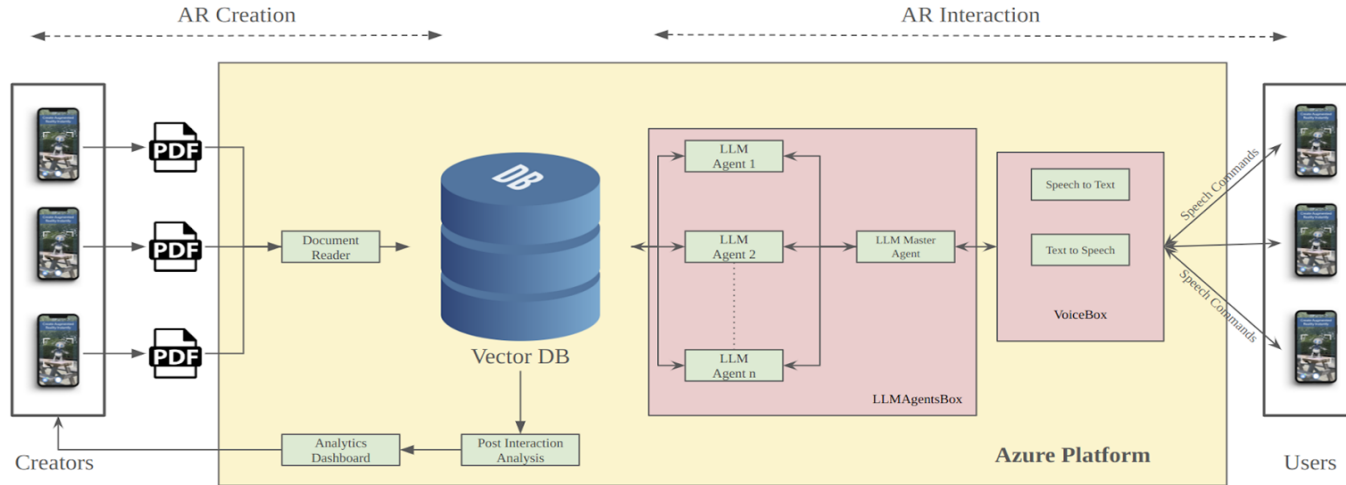
MLss & MLloOps

Structured Information

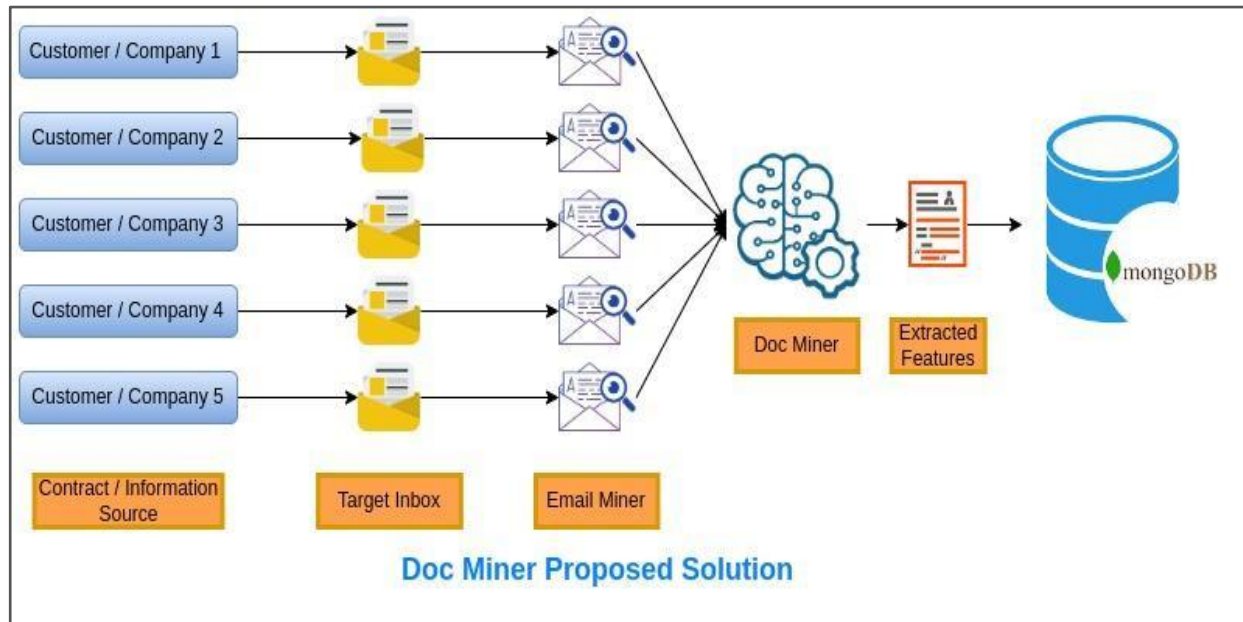
# Converse AR

AI-powered backend system designed to integrate seamlessly with AR model. It enables voice-based interaction with the AR model using information from reference documents and provides post-interaction analytics for actionable insights.

Deployed by Air Craft Maintenance Company.



# Use Cases : Data Analytics/ Contextual Search



Client : One of US Corp providing AI Based Business Intelligence Services

- Focus on EMail of Interest ( Sender as well as Topic/Subject Filter)
- Analyse the Mail Text/ Attachment Text
- Extract desired details and summarise it.
- Typical Applications
  - 1.Contract Summarisation
  - 2.Tender/ RFP summarisation
  - 3.Legal Document summary
  - 4.Create Extract from Detailed Document ( AGM / MOM Mailers)

Unstructured Data

MLss & MLloOps

Structured Information



# Data Extraction from Sale Deed Documents

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## Requirement

- To extract Key Information from Scanned Image PDF documents
- Information to be extracted daily in time bound manner
- Accuracy and Consistency to be maintained

## Output

- Daily Processing of about 7,000 Documents in first hours of day
- Data collected from multiple locations having different style and variations
- Accuracy above 90%+
- Cross Check of Data Points for Auto Correction

## Benefits/Features

- High Speed Processing
- 90% reduction in manual work
- Purpose Specific Hosting
- Low Cost of Operation

# Data Simulation –Digital Human

## Problem Statement

- Historical Data does not represent future scenarios for some of business cases.
- Need to create such data and integrate with other data to conduct data analytics
- At times , data series breaks to be filled by analysis of pre and post data patterns

## Solution

- Create a platform to simulate data for required use cases.

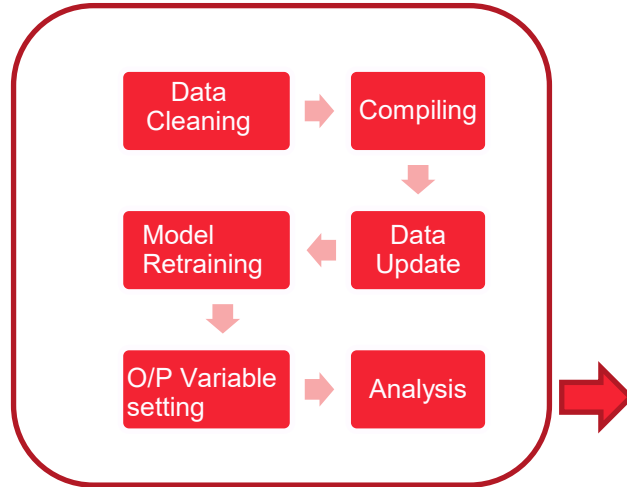
## Benefits/Features

- Helps predict future demands/ trends of new product / situation with simulated data.
- Helps bridge the gap in series with more logical and reasonable data creation( Use case : Gap in energy metering data)
- Have back testing possible with good accuracy

# Auto Predictive framework for variable I/P & O/P

Date	Units/Day	Date	Units/Day
5/27/2016	22830	6/27/2016	
5/28/2016	24270	6/28/2016	22710
5/29/2016	21720	6/29/2016	25320
5/30/2016	19080	6/30/2016	23730
5/31/2016	23610	7/1/2016	24630
6/1/2016	22290	7/2/2016	23520
6/2/2016	26010	7/3/2016	19770

Variable Inputs



Solution designed and deployed for in-premise application. Fully Confidential Analytics Support

Actionable Insights on Loaded Data with Trend, Correlation and Prediction Capabilities in a UI

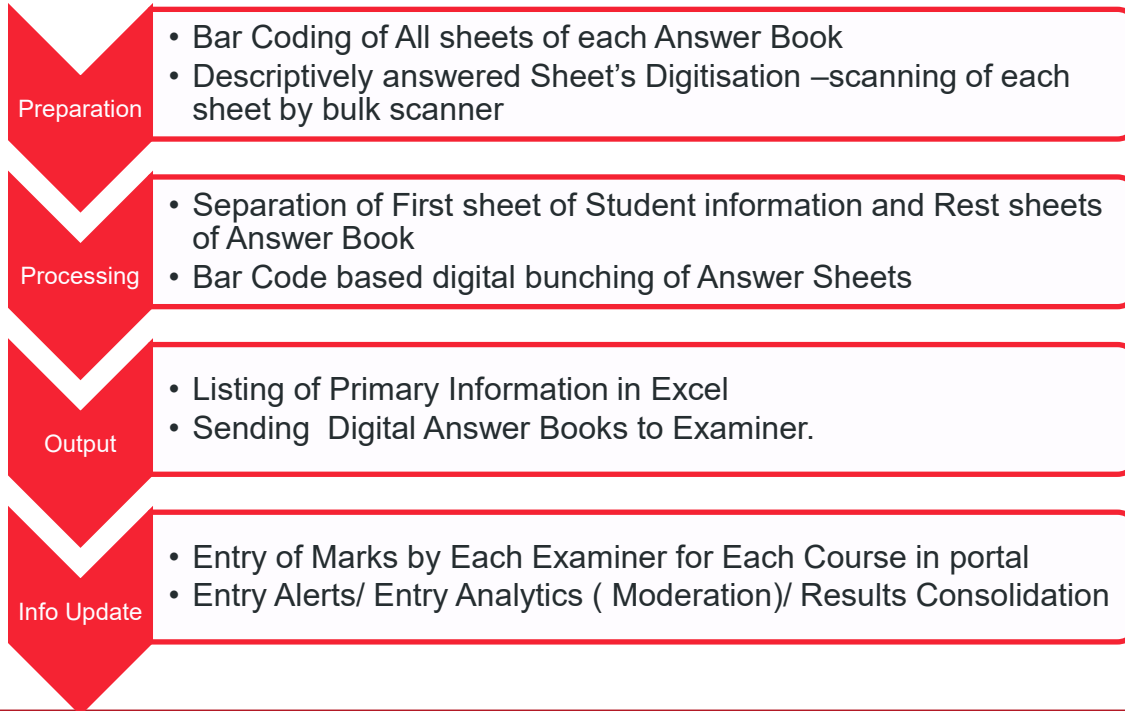
Unstructured Data

MLss

Structured Information

# Assessment Process Automation for Universities

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# Multi Lingual Solutions

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## TEXT PROCESSING

### Extraction

- Extraction of Arabic Text from Business Documents / Normal Texts- PDF/ Scanned PDF

### Query

- Arabic to Arabic Query Processing

### Translation

- Translation from Arabic to English

## VOICE PROCESSING

### Requirement

- Near real time translation across multiple international languages
- Auto detection of input voice stream language

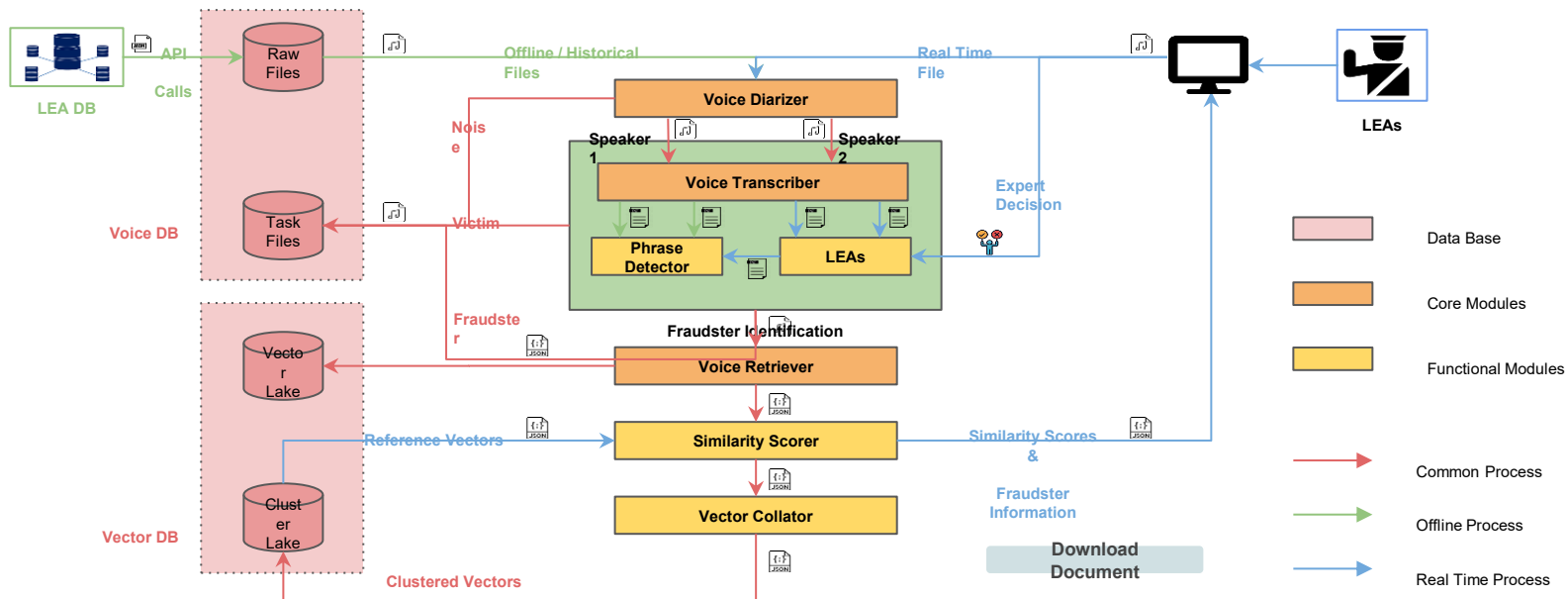
### Solution

- Solution Designed for critical communication application with on site standalone server carryout 6-8 language cross translations

### Features

- Speech to text conversion in in premise environment.
- Pilot Project under development with Govt of India.

AI enabled Voice recognition Software to assist LEA ( Law Enforcement Agency) in handling Fraudulent calls with speaker identification and voice fingerprinting Capabilities



## Solutions successfully designed for diverse sectors

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Sr No	Use Case	Industry
1	Extraction of Complete Data from Complex Form	Taxation and Finance advisory
2	Answer Sheet Key data Extraction	Education
3	Data Extraction from E Mail / Attachments (USA)	Medico-Legal
4	Tender /RFP Document Summarisation across all forms of attachments	Market Intelligence Services provider
5	Extraction of Data from Sale Deed Documents (USA)	Financial/ Insurance Secor
6	Resume Parser with LLM Model	HR/Recruitment
7	Extraction of Product Order details	Luxury Apparel Mfg Industry
8	RFQ/RFP to Quotation Creation Process Support	Telecom Infrastrcture
9	Voice Seperator and Comparator	LEA ( law Enforcement Agency)
10	LLM Based AR/VR for Tech Support to Manufacturing Indsutry	Aerospace, Technical Support - Maintenance Support Tool
11	Variable Input/ Output based prediction model	Defense (Any)/ In Premise Analytics Solution

# Terra EdgeSoft

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- **Focus** : Company Exclusively focussed in Design of AI-ML Solutions for Enterprise Segment
- **Control** : Solutions are designed from Code Level/ Algorithm level , so complete control on Customisation/ Optimisation/ feature enhancement
- **Customised/ Low Latency** : Solutions Developed specific to client need - being code efficient - low latency
- **State of art** :Strong R&D Orientation – Continuous adaptation of new theories for better performance
- **Hosting Options** : For Business Sensitive Applications – Solution can be hosted In premise/ Private Cloud
- **Cost Effective** : Ready Service Stack . Quick Solution Design/ Testing / Integration resulting in lower costs.  
Only objective specific code resulting in lower recurring costs of infrastructure





Partial List of Customers



# Thank You