

# TMA AI CENTER

- Overview
- Services
- Technologies
- Solutions
- Industries



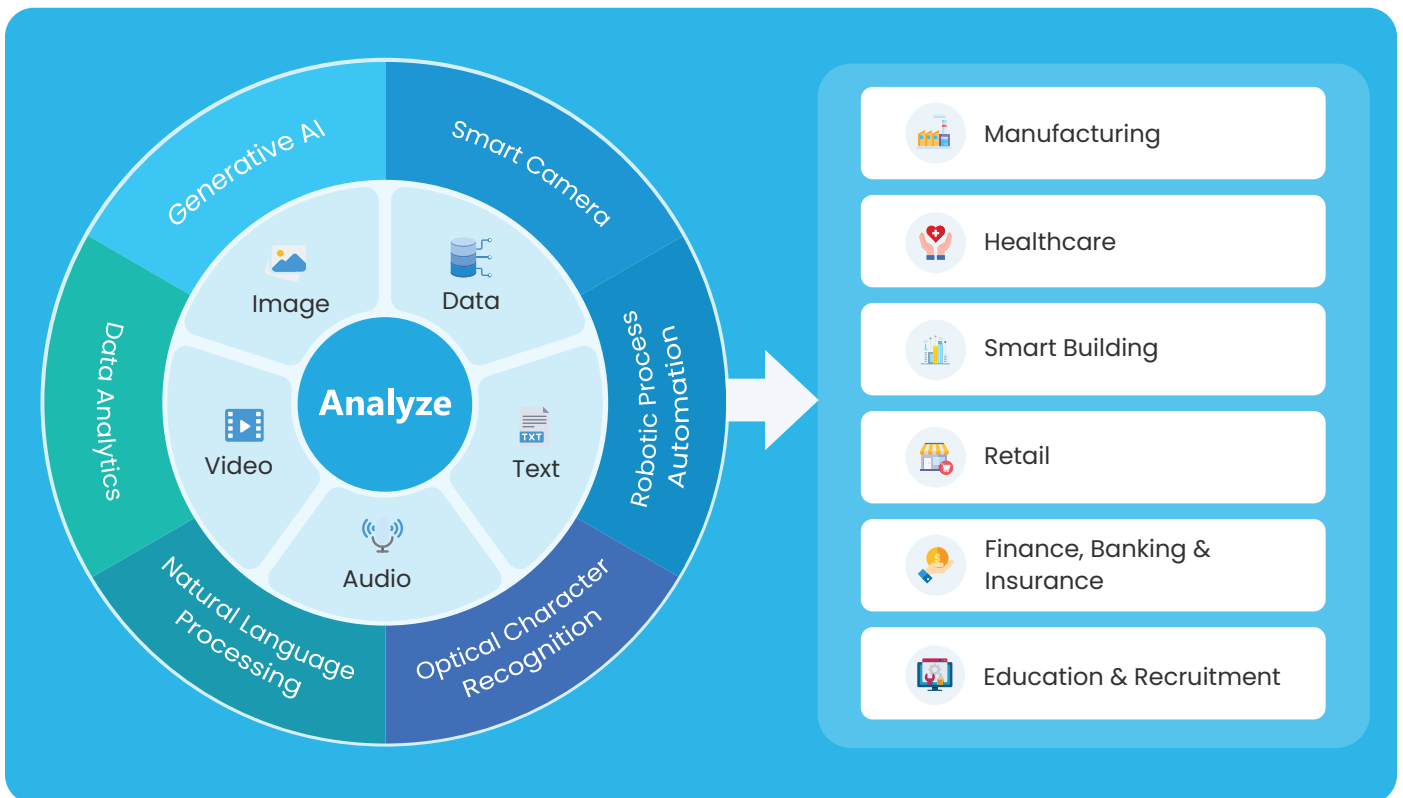
**10** years  
of experience



Clients from  
**12** countries



**200+**  
Engineers



## Services

R&D PoC/Prototype Development

AI Application Development

AI Solutions for Enterprises

AI Roadmap



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# Technologies

## Math & Statistics ML

- Supervised learning: Linear Regression, SVM, Decision Tree, Gradient Boosted, LDA, UMAP
- Unsupervised learning: PCA, t-SNE, UMAP, KNN, K-means clustering, Hierarchical clustering
- Reinforcement learning: Markov decision process, Q-Learning and Deep Q-Networks
- Mel-Spectrograms, Sound waves processing, Fourier Transform, Dynamic Time Warping, HuBert

## Deep Learning

- Models: CNN, RNN, GAN, LSTM, Autoencoders, Transformers & Latent Analysis
- Frameworks: Tensorflow, Keras, Pytorch, Spacy
- Generative AI: ChatGPT/OpenAI

## Edge AI

- Model Optimization: TensorRT, OpenVINO
- Mobile: Tensorflow Lite, Pytorch Mobile
- Edge Devices: Raspberry Pi, Jetson Nano, Intel NCS
- NVIDIA Metropolis, Deepstream, TAO Toolkit

## MLaaS/MLops

- SAS
- Microsoft Azure AI
- Google Cloud AI
- AWS AI

## Predictive Analytics

- Regression
- Classification
- Clustering
- Time Series

Computer  
Vision

NLP | OCR

Generative AI |  
LLM



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## Generative AI

- Content Generation

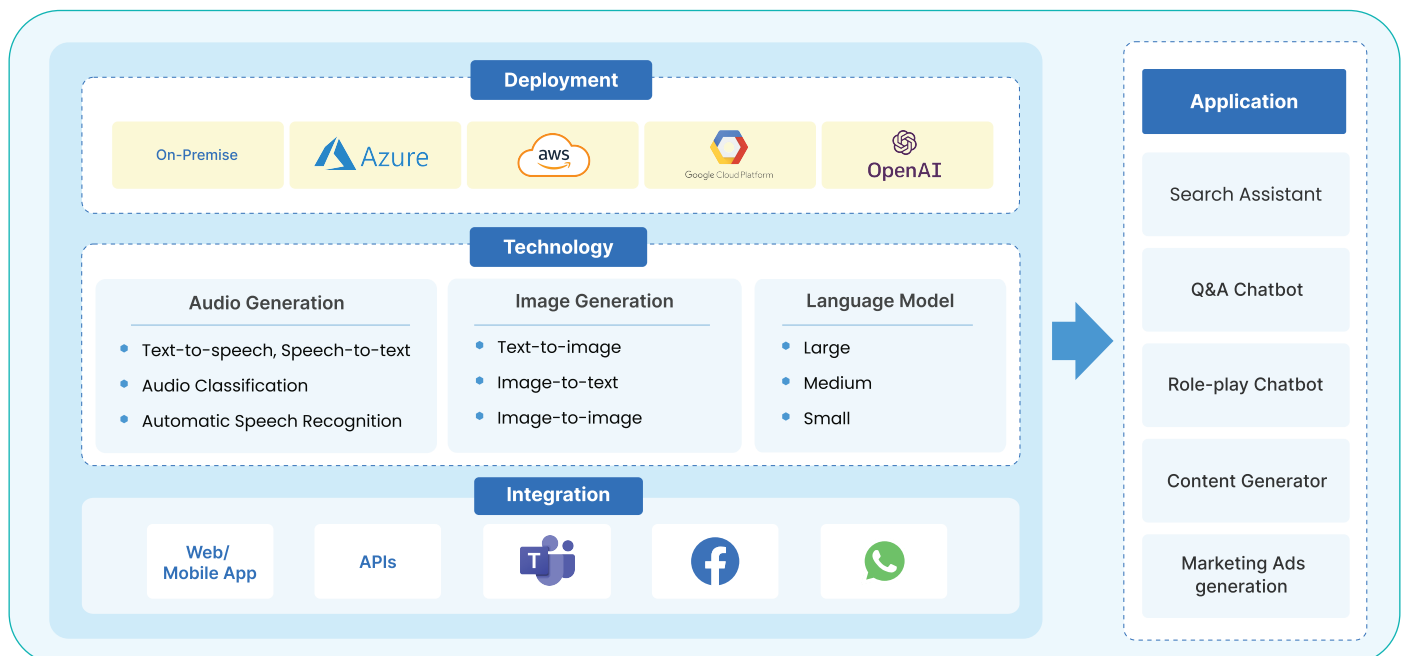
Smart learning tool	Text summary & classification	Market analysis
Calendar/ email/ chat integration	Social media post generation	Course builder
Email marketing assistant		Business sentiment analysis

- Chatbot Assistant

Academic assistant	Online training assistant	Role-playing chatbot platform	Call center agent
Smart assistant	Smart UI		Safety system

- Search and recommendation

Smart data query	RPA with ChatGPT	Healthcare virtual assistant	Application lifecycle management
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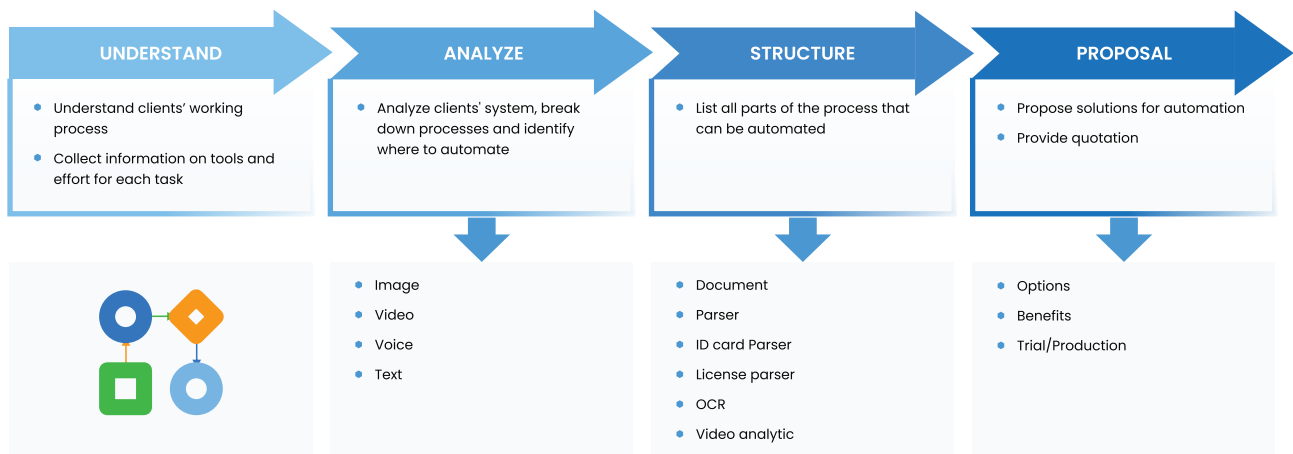
## Smart camera

Face recognition/ facial expression	Age/ gender prediction
Personal protective equipment detection	Trespassing & vandalism detection
People in restricted area	Security & Safety
Violation detection	Crowd detection
Weapon detection	Children/ pet detection
Defect detection	Truck monitoring
Parking lot detection	License plate recognition



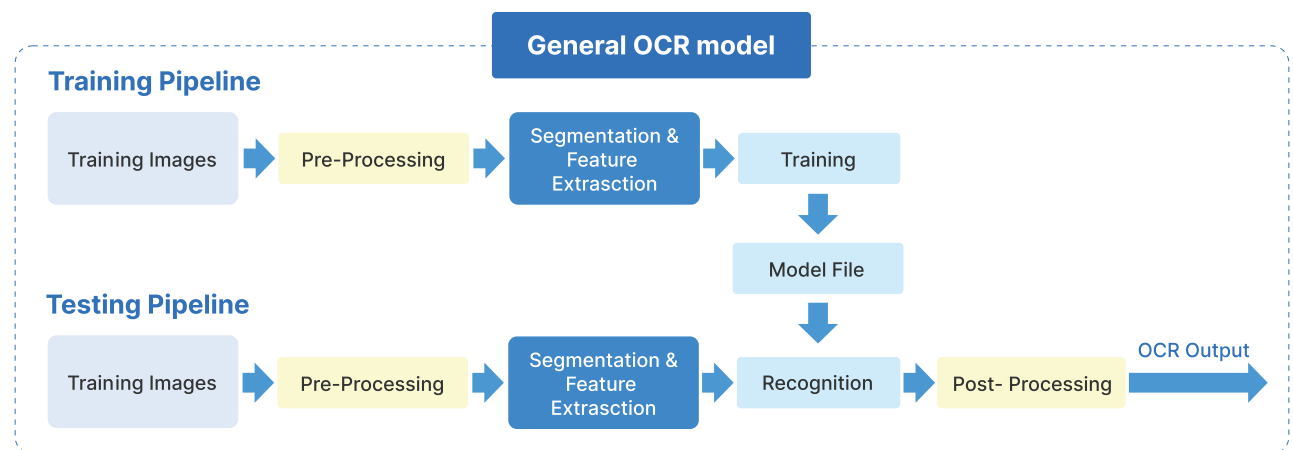
## Robotic Process Automation

- Automatic CV input
- COD automation
- Logistics data process
- Debt reminder
- Finance report mismatch detection
- Inventory alert
- Invoices data process
- Stock monitoring notification
- Insurance claim payment process
- Certificate of conformity data input



## OCR & NLP

- Structured & unstructured documents
- Voice analytics
- Medical prescription
- Invoice, receipt
- Content extraction
- Logo matching, Product/brand detection
- Resumes
- ID card, passport



## AI for Manufacturing

Access control

Personal protective  
equipment

Safety solutions

Behavior analytics

Product quality control

Machine optimization

Predictive maintenance

CAD digitalization

Vehicle detection

Parking lot detection

License plate recognition



## AI for Healthcare

Healthcare chatbot  
solutions

Inbody parser

Prescription parser

Health device  
monitor parser

Heart rate analysis

Sleep analysis

Call center assistant

Early health  
abnormalities detection

Tooth status evaluation



## AI for Smart Building

Residential & staff  
access control

Guest access control

Elevator access control



Trespassing & vandalism  
detection

Smart locker

Operation data analytics

## AI for Retail

Shopping assistant

Product recommendation

Smart locker

Customer feedback  
collection

Warehouse access control

People detection  
& Traffic tracking

People counting

Age & gender detection

Product & brand detection

People heatmap

Smart call center assistant



# Industries

## AI for Finance, Banking & Insurance

Automated financial report

Credit scoring  
& risk assessment

Predictive analytics

Vault access control

Call center assistant

Debt reminder

Insurance claim  
payment process

Finance report  
mismatches detection

Identity card  
& driver's license parser

Bank & tax statement OCR

Stock monitoring notification



## AI for Education & Recruitment

Course finder assistant

CV matching

Job recommendation

Learning path recommendation

Student behavior tracking

Academic assistant for LMS

Auto grading assessment

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