

TMA AI CENTER

• Overview

• Services

• Technologies

• Industries



10+ years
of experience



200+
AI Engineers



100+
AI solutions



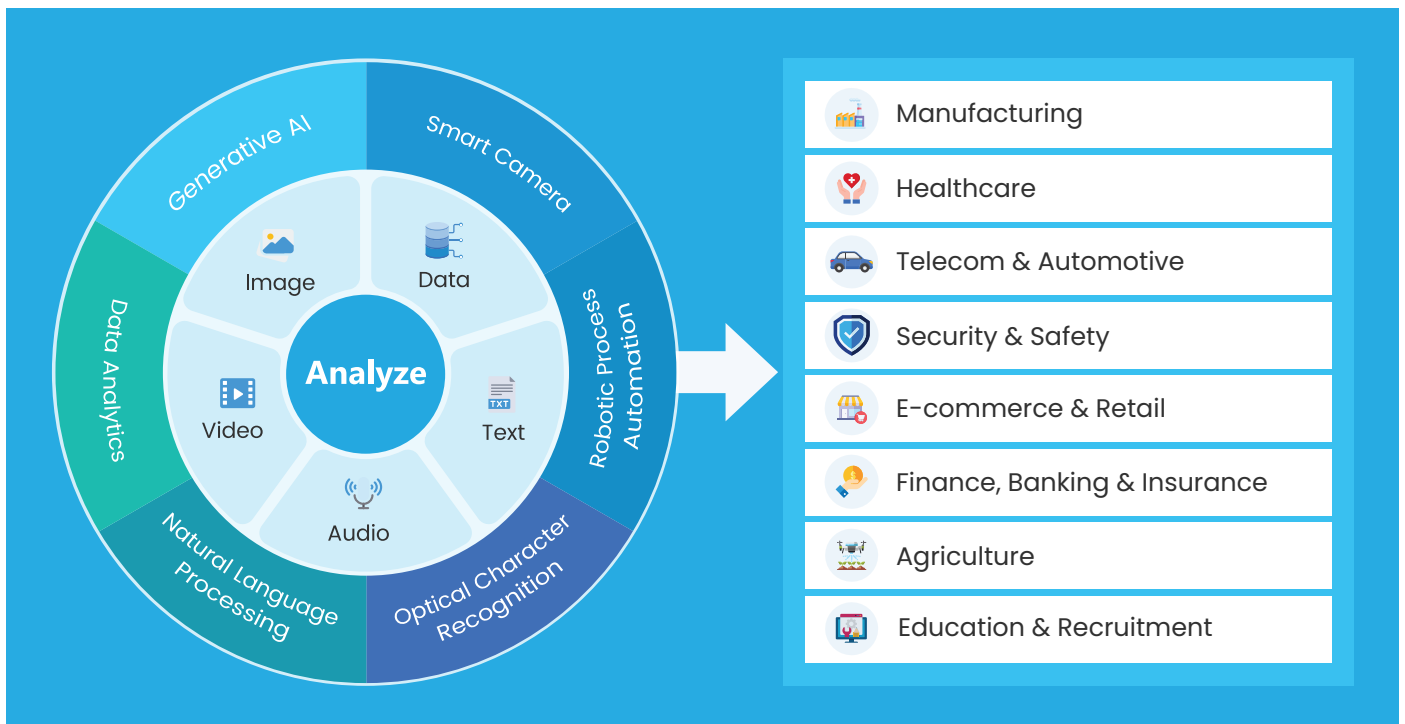
100+
AI certificates



100+
AI projects



Clients from
20+ countries



Services

Develop AI Features/Products

Setup AI Development Center

Provide AI Solutions

AI as a Service (AlaaS)



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Machine Learning (ML)

- Supervised ML: Linear Regression, SVM, Decision Tree, Gradient Boosted, LDA, UMAP
- Unsupervised ML: PCA, t-SNE, UMAP, KNN, K-means clustering, Hierarchical clustering
- Reinforcement Learning: Markov decision process, Q-Learning and Deep Q-Networks
- Predictive Analysis: ARIMA, SARIMA, Prophet, LSTMs, Transformer-based forecasting
- Recommendation System: Collaborative Filtering, Content-based, Hybrid, Graph analysis

Computer Vision (CV)

- Object Detection: YOLO v8, Faster R-CNN, SSD, DETR, SORT, DeepSORT, ByteTrack
- Pose Estimation: OpenPose, MediaPipe, DeepPose
- Facial Recognition: FaceNet, ArcFace, Dlib
- Optical Character Recognition (OCR): Tesseract, EasyOCR, PaddleOCR
- Video Streaming & Analytics: NVIDIA DeepStream SDK, GStreamer + OpenCV, FFmpeg, WebRTC
- Audio & Signal Processing: Mel-Spectrograms, Sound waves processing, Fourier Transform, Dynamic Time Warping, HuBert...

Edge AI

- Edge AI Devices: Raspberry Pi, Jetson Nano, Intel NCS, MCU
- Edge AI Frameworks: TensorRT, OpenVINO, ONNX, TensorFlow Lite, PyTorch Mobile, CoreML, ML Kit
- NVIDIA Frameworks: Metropolis, DeepStream SDK, TAO Toolkit
- Qualcomm Frameworks: Neural Processing SDK

Generative AI | LLMs | NLP

- Chatbot, LLM: Rasa, Botpress, TensorFlow, PyTorch, DialogFlow, MS Bot Fwk, Transformers, Gemini, GPT, Llama, Tülu, DeepSeek, Qwen
- AI Agent, Agentic AI, RAG-based LLM: Langchain (LangGraph), LlamaIndex (LlamaIndex Workflow), Langfuse, CrewAI, Prompt flow, Voiceflow
- NLP: SpaCy, NLTK, TextBlo, RegEx





Technologies

Speech & Voice Recognition

- Acoustic & Language modelling: DNNs, CNNs, Transformers
- Feature Extraction: MFCCs, PLP, Spectrograms
- Frameworks: Google Speech-to-Text, Amazon Transcribe, IBM Watson Speech to Text, Microsoft Azure Speech, Deepgram, SpeechRecognition, DeepSpeech, Kaldi, Pyttsx3, PyAudio

Cloud AI & Services

- LLM: Azure OpenAI Studio, OpenAI API, Bedrock (AWS), Vertex AI (Google Cloud)
- Video & AI Avatar: Azure Avatar, Synthesia, Elai, Heygen, D-ID
- Machine Learning: AWS SageMaker, Azure ML Studio



Sample AI Solutions for Industries

Manufacturing

- | | |
|---------------------------------------|---|
| • Defect detection | • Personal protective equipment (PPE) detection |
| • Product sorting/counting | • Smart locker |
| • Packaging information extraction | • Emergency notification monitoring |
| • Equipment/machinery data extraction | • Safety & Security camera solutions |
| • Machine optimization | • Worker/partner/vehicle access control |
| • Predictive maintenance | |

Ecommerce & Retails

- | | |
|--|-----------------------------------|
| • Smart locker | • Warehouse access control |
| • Multi-camera tracking | • AR packaging assistant |
| • VIP & blacklist detection | • Inventory alert |
| • People counting | • Visual & voice search |
| • Age & gender detection | • Virtual try-on |
| • People heatmap | • Product recommendation |
| • Customer behavior in retail monitoring | • Chatbots and virtual assistants |
| • Smart call center assistant | |





Sample AI Solutions for Industries

Healthtech

- Medical documents extraction
- Sleep quality data analytics
- Sleep apnea detection
- Atrial fibrillation detection using ECG
- Customer service chatbot
- Smart call center assistant
- Fall detection
- Patient taking medication activities detection
- Tooth recognition & scoring

Security & Safety

- Access control
- Vehicle detection
- License plate recognition
- Parking lot detection
- Aggression/crowd/weapon detection
- Children/pet detection
- Intrusion detection
- Smart locker
- Emergency notification monitoring

Finance, Banking & Insurance

- Automated financial report
- Credit scoring & risk assessment
- Finance report mismatches detection
- Debt reminder
- Insurance claim payment process
- Vault access control
- Smart call center assistant
- Identity card & Driver's license parser
- Bank & tax statement OCR



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