



# ARTIFICIAL INTELLIGENCE

COMPUTER VISION | EDGE AI COMPUTATION |  
DEEP LEARNING | REALTIME VIDEO ANALYTICS

## Readily available high precision AI models:

- ▶ Person Detection – RGB & IR
- ▶ Vehicle Detection – RGB & IR
- ▶ Automatic Number Plate Recognition (ANPR)
- ▶ Boat Detection
- ▶ Face Detection & Verification
- ▶ Object Tracking
- ▶ Activity Recognition
- ▶ Image Haze/Noise Removal
- ▶ Image Deblurring & Super Resolution

*“Predicting the future is not magic,  
it’s artificial intelligence”*

## Inhouse AI Algorithms for various tasks:

- ▶ Image Classification
- ▶ Object Detection & Identification
- ▶ Multi-class Multi-object Tracking
- ▶ Human Pose Estimation
- ▶ Face Recognition and Verification
- ▶ Image Enhancement
- ▶ Image Restoration



## Our Capabilities:

- ▶ Automatic AI model development (Detection & Tracking) for custom targets
- ▶ Transfer learning support for state-of-the-art CNN architectures
- ▶ Accelerated Edge computing (Jetson & Xilinx platform)
- ▶ High precision & real-time inference AI models
- ▶ Real-time video analytics
- ▶ End-to-End AI applications
- ▶ Secured REST API communication for multi device control and multi sensor integration nodes
- ▶ Smart video recording & Automated alert system
- ▶ Client-Server communication with On-the-Fly model & data update with zero application downtime
- ▶ User-friendly dashboards with detailed instructions
- ▶ All day operation with IR and RGB camera sensors integration

**Delivering custom built Pattern Recognition Models &  
Ensemble Deep Learning APIs**



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Bharat Abhiyan

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SIDM



**ROBOTICS**  
Innovation and Research