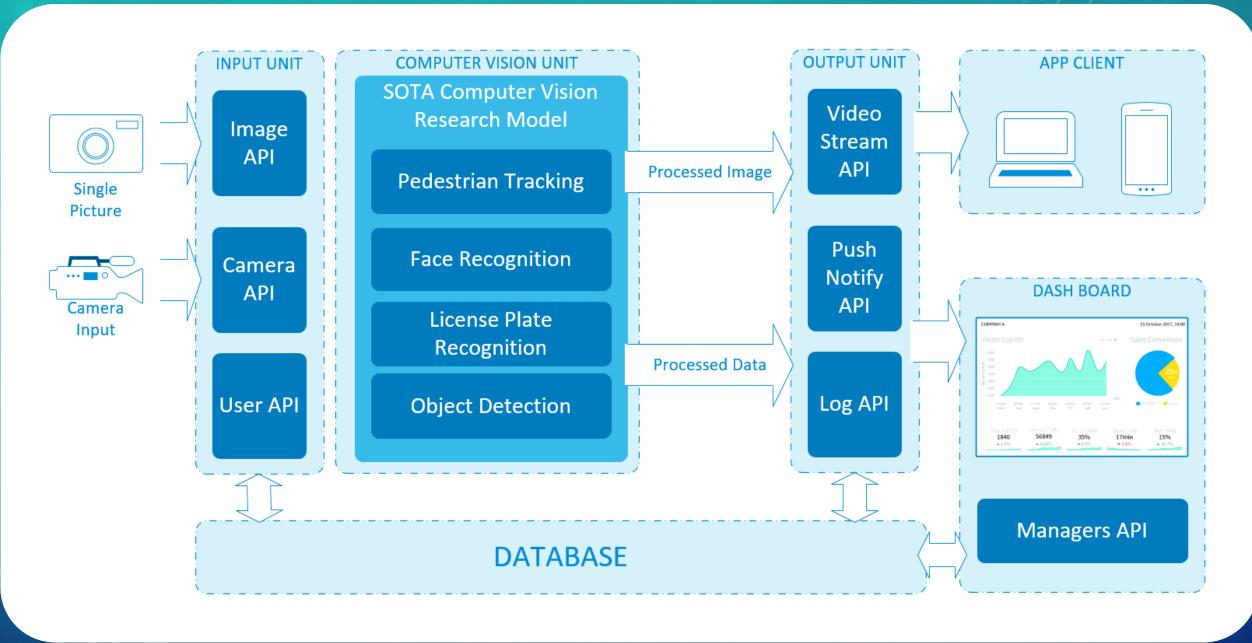


System Architecture



COMPUTER VISION UNIT

- Main Processing Unit
- Using State of the Art Deep Learning Research
- 4 Core Technology Module:
 - Pedestrian Tracking
 - Face Recognition
 - License Plate Recognition
 - Object Detection

COMPUTER VISION UNIT

SOTA Computer Vision Research Model

Pedestrian Tracking

Face Recognition

License Plate Recognition

Object Detection

Technology

AI-Robotics-IoT&Blockchain

MODULE 1 PEDESTRIAN TRACKING

COMPUTER VISION UNIT

SOTA Computer Vision Research Model

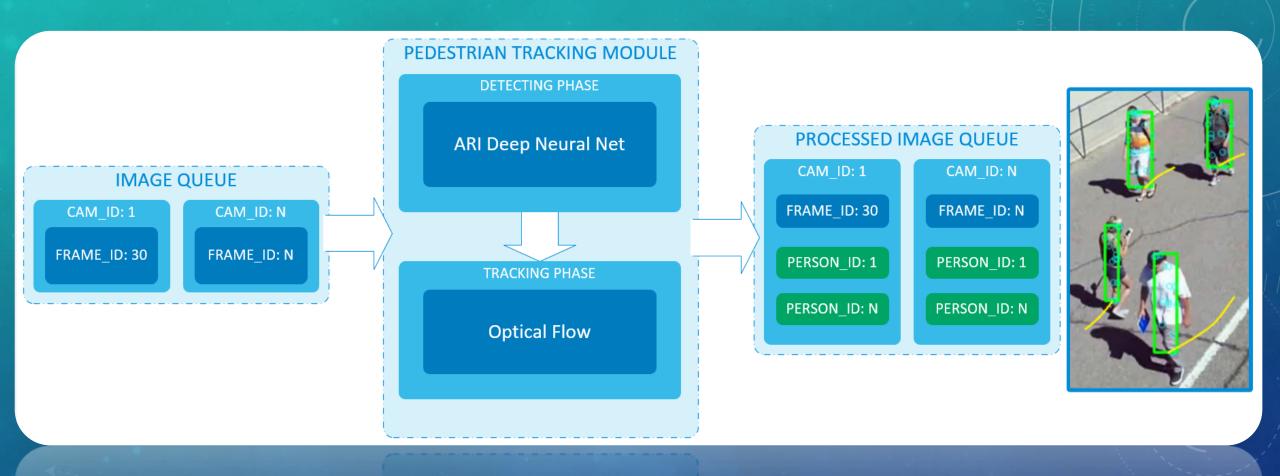
Pedestrian Tracking

Face Recognition

License Plate Recognition

Object Detection

Pedestrian Tracking Module



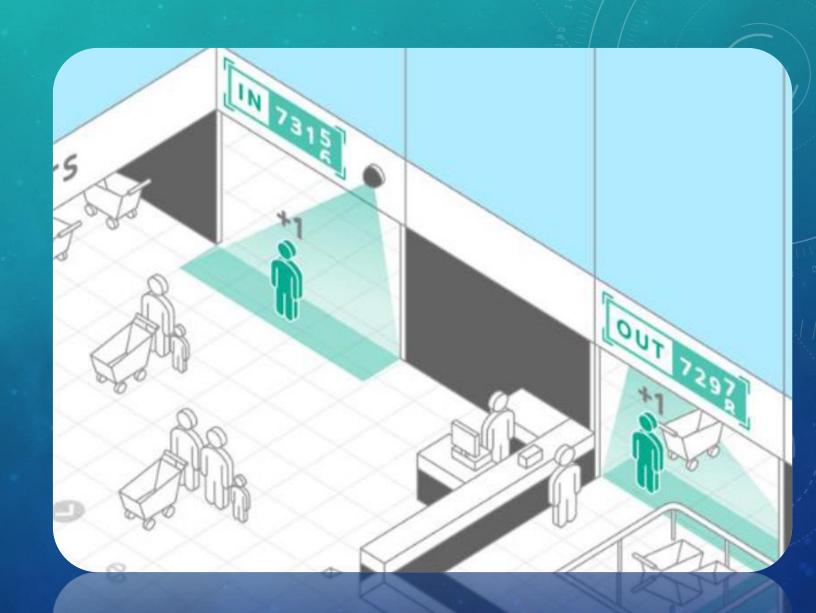
DASH BOARD

- User Management
- People Couting Report
- Alarm Push Notification



PEOPLE COUNTING

- Total in out people
- Daily Monthly Report
- Peak Hour Analytics



ALARM

- Restricted Zone Alarm
- Line Crossing Alarm
- Push Alarm to Phone/Laptop
- Alarm Time Setting



HEAT MAP

- Real-time Customer Tracking
- Optimize Popular Areas
- Improve Store Design



CROWD DETECTION

- Trigger Alarm to Phone/Laptop
- Improve Public Safety
- Camera Supervisor not needed

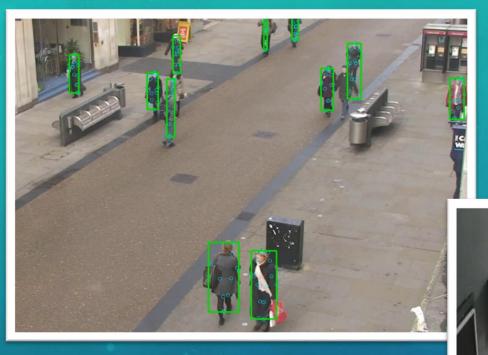


STAFF ABSENT

Trigger Alarm to Phone/Laptop



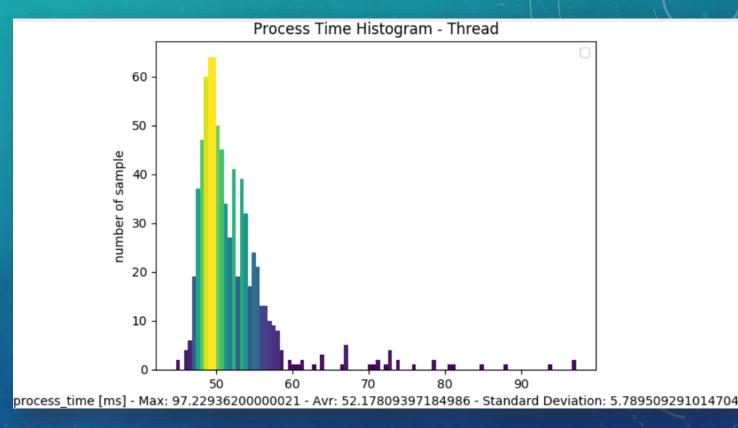
Result & Benchmark





RESULT & BENCHMARK

- Single Video People Detection
- Intel Core I7 Processor
- 8GB RAM
- No GPU Needed
- Ideal Conditions (No other heavy load)





AI-Robotics-IoT&Blockchain

MODULE 2 FACE RECOGNITION

COMPUTER VISION UNIT

SOTA Computer Vision Research Model

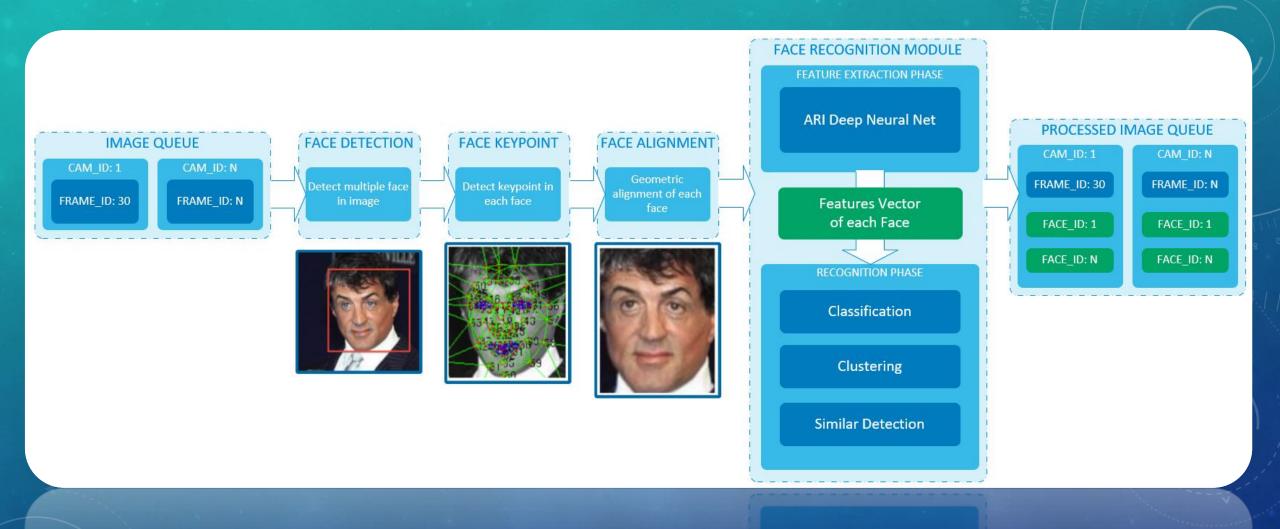
Pedestrian Tracking

Face Recognition

License Plate Recognition

Object Detection

Face Recognition Module



EMPLOYEE ATTENDANT

- Automatic Employee Face Scanning
- Time Saving
- In Out time of Employee



ACCESS CONTROL

- Sensitive Areas Protection
- Push Alarm to Phone/Laptop when Unauthorized Access



FACE SEARCH SURVEILLANCE SYSTEM

- Search Similar Face of Knowed Target
- Save Face to Database for report
- Alarm Trigger Settings





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MODULE 3
LICENSE PLATE RECOGNITION

COMPUTER VISION UNIT

SOTA Computer Vision Research Model

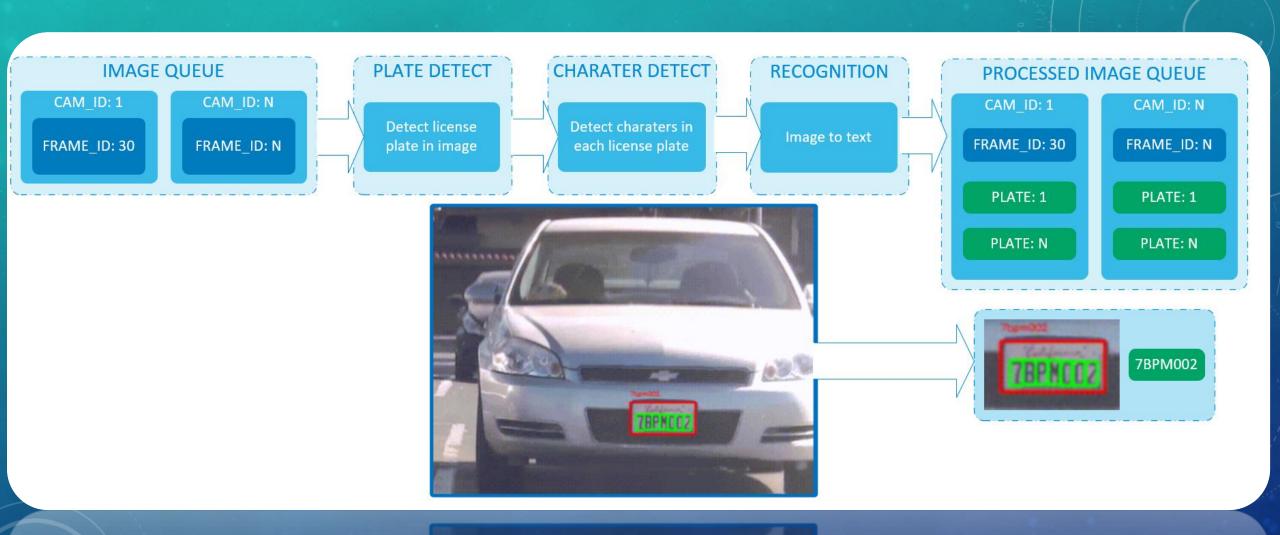
Pedestrian Tracking

Face Recognition

License Plate Recognition

Object Detection

License Plate Recognition Module



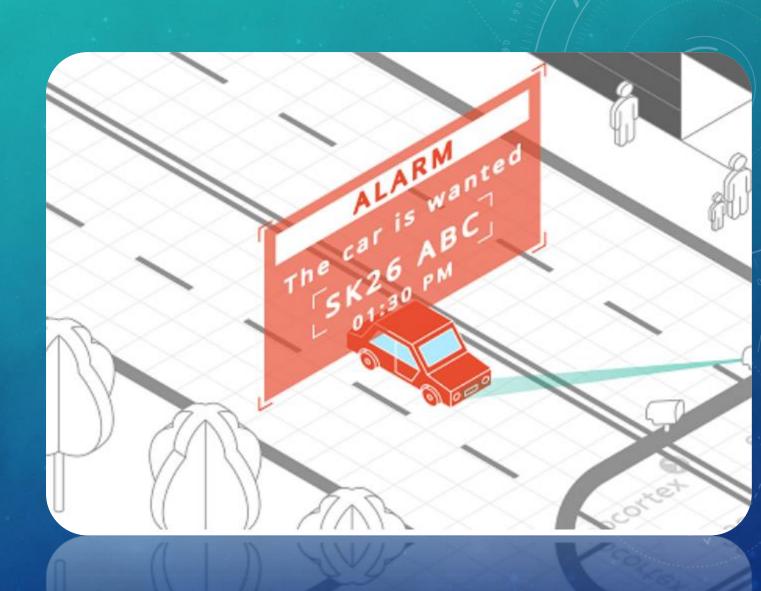
AUTOMATIC PARKING LOT

- In Out Vehicle + Time
- Auto Fee Charge



UNAUTHORIZE VEHICLE

Push Alarm to Phone/Laptop



Technology

AI-Robotics-IoT&Blockchain

MODULE 4 OBJECT DETECTION

COMPUTER VISION UNIT

SOTA Computer Vision Research Model

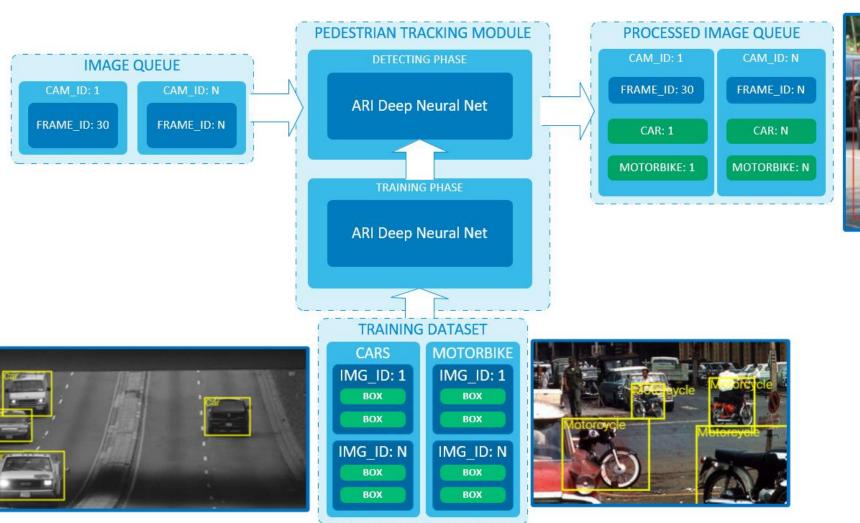
Pedestrian Tracking

Face Recognition

License Plate Recognition

Object Detection

Object Detection Module





UNAUTHORIZE VEHICLE

- Strange Objects Production Line
- Missing Part Detection
- Customize for Different Customer Data



UNAUTHORIZE VEHICLE

- Strange Objects Production Line
- Missing Part Detection
- Customize for Different Customer Data

