KRYPTONAIT

KRYPTON AI TECHNOLOGIES PRIVATE LIMITED

AI-BASED VIDEO ANALYTICS SYSTEM

An intelligent surveillance solution that uses AI to analyze video feeds in real time for object detection, behavior analysis, and threat identification—enhancing situational awareness and security efficiency.
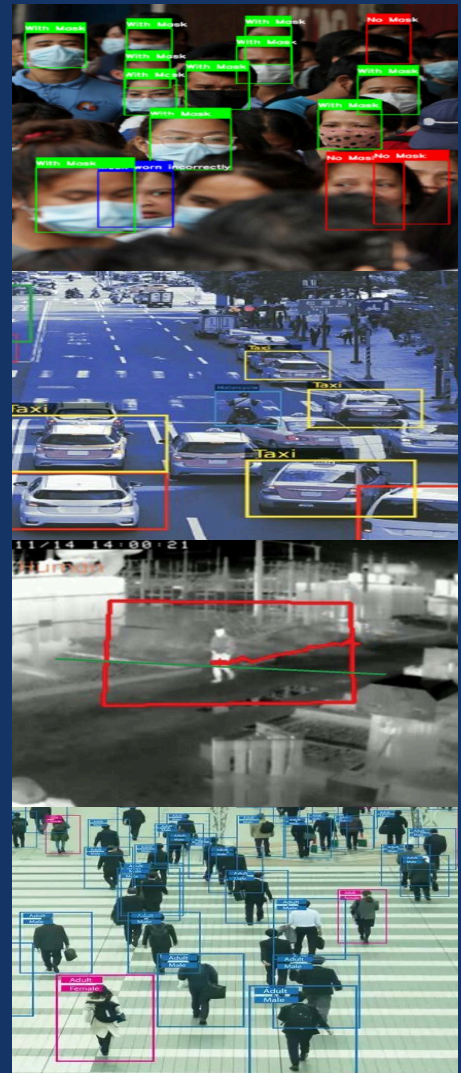
Glossary

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INTRODUCTION

Our AI-Based Video Analytics System is a cutting-edge, all-in-one platform designed to transform conventional surveillance into intelligent, proactive monitoring. Built with state-of-the-art AI and machine learning technologies, it offers real-time video analysis, instant alerts, and actionable insights — all through a centralized and scalable system.

The solution includes over 50+ advanced analytics features, covering a wide range of applications including security surveillance, traffic control, industrial safety, retail monitoring, and public space management. With compact Edge AI deployment, robust cloud compatibility, and a modern tech stack, it ensures seamless performance in any environment — from smart cities to industrial zones.
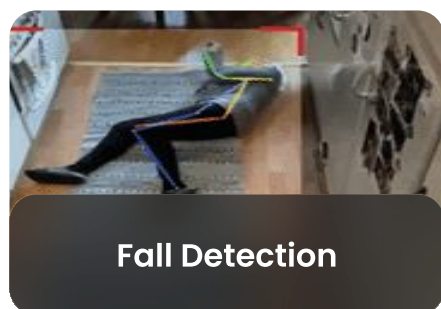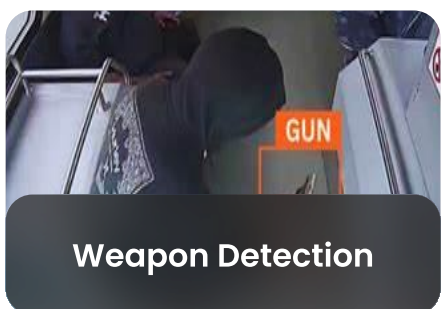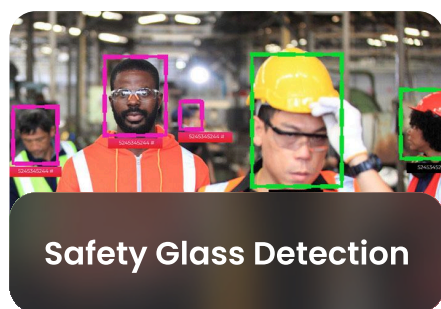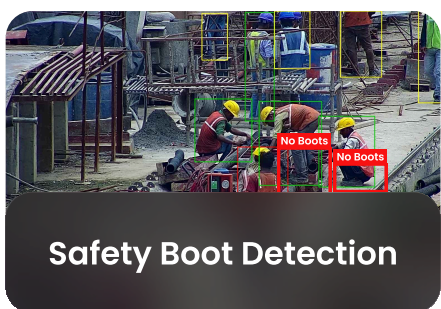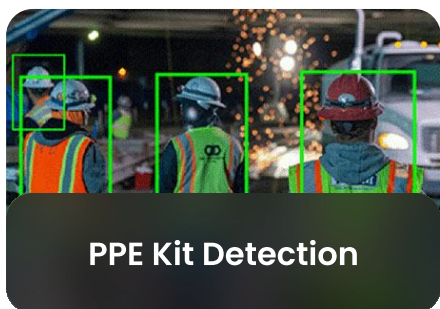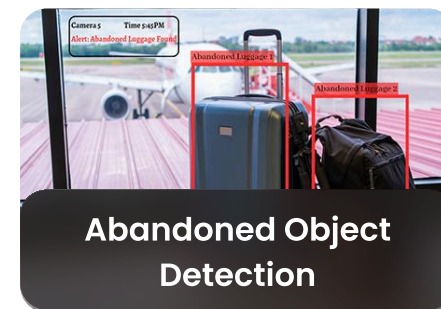
For better usability, our platform delivers a unified experience with inbuilt VMS capabilities, IoT readiness, customizable AI models, and plug-and-play API integrations. It's designed to be future-ready, secure, and adaptable to the specific needs of any organization.

WHY OUR SOLUTION IS NEED OF THE HOUR

- Offers real-time AI-powered monitoring with smart alerting and event detection

- Offers upto 50+ analytics use cases through one cohesive, easy-to-use platform

- Customizable AI models trained specifically for your operational requirements

- Built on a modern, scalable, and secure tech stack, ready for rapid deployment

- Edge AI support ensures fast processing with minimal infrastructure needs

- Centralized dashboard enhances visibility, efficiency, and control across all locations

- Fully IoT and cloud-ready with flexible deployment options

- Includes an integrated VMS and smart access control features for end-to-end operations
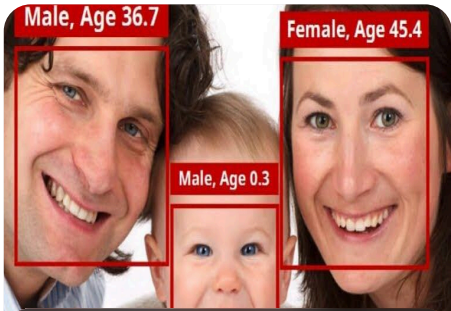
OBJECT & EVENT RELATED ANALYTICS

Illegal Waste Dumping Detection

Waste Classification

Overflown Trash bin Detection

Water logging/Flood Detection

Fire/Smoke Detection

Abandoned Object Detection

Object Detection

PPE Kit Detection

Safety Helmet Detection

Safety Boot Detection

Safety Gloves Detection

Safety Glass Detection

Weapon Detection

Mask Detection

Fall Detection

HUMAN FEATURES & BEHAVIORAL ANALYTICS
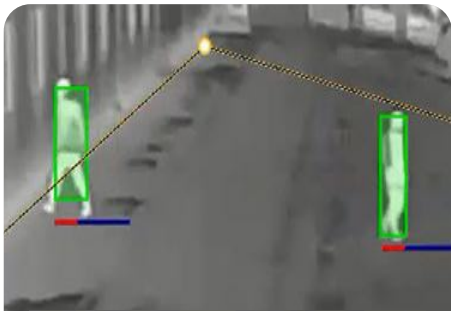

People Count
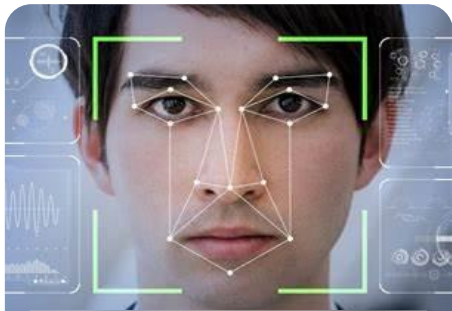

Age & Gender Detection
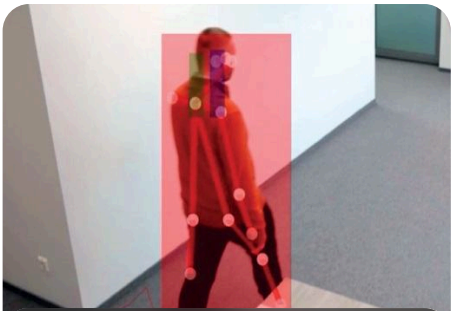

Intrusion Detection

Costumer Behaviour Analysis

Loitering Analysis

Facial REcognition

No Entry Detection

Littering Detection

Driver Monitoring

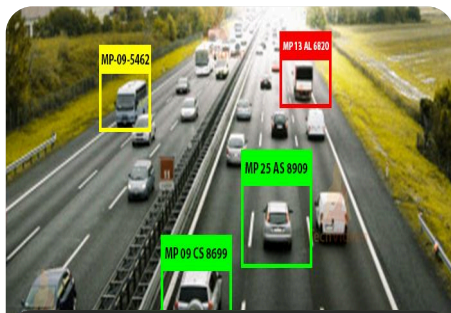Crowd Behaviour Detection (Panic, Excitement)
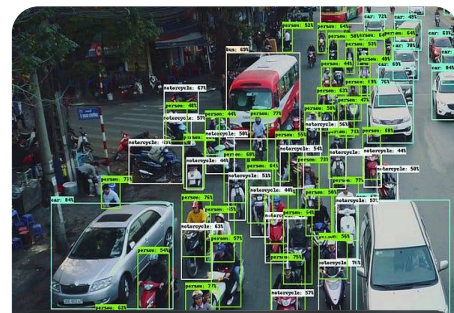

Behaviour Analysis

Theft Detection

TRAFFIC RELATED ANALYTICS

Vehicle Movement Tracking

Automatic Number Plate Recognition (ANPR)

Jam Detection

Illegal Parking
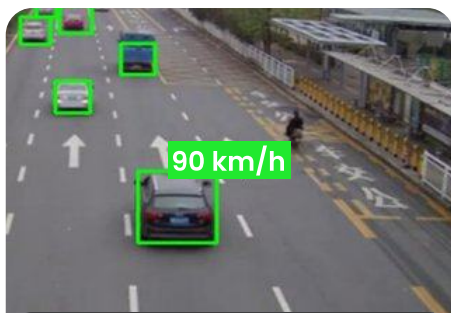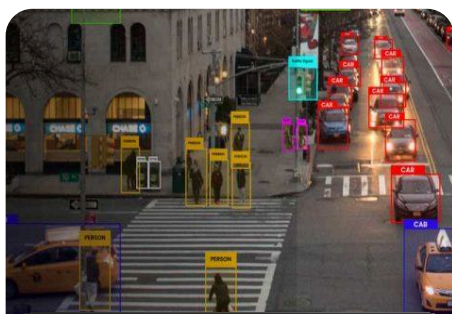

Vehicle Detection

Wrong-way Detection

Vehicle Crash Detection

Overspeeding Detection

No Helmet Detection

Zebra Crossing Detection

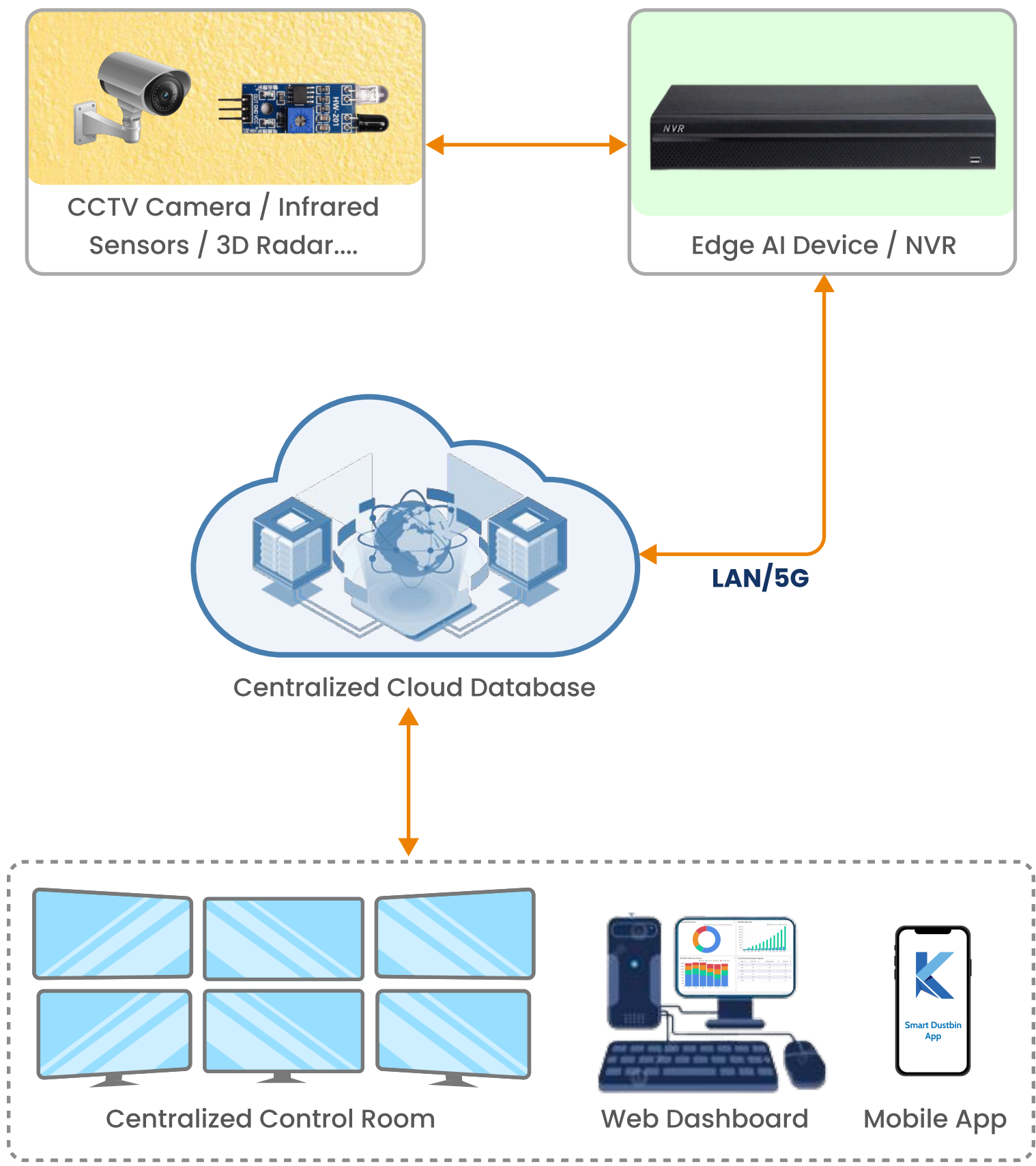Seat Belt Detection

Triple Rider Detection

SOLUTION ARCHITECTURE

CCTV Camera / Infrared Sensors / 3D Radar....

Edge AI Device / NVR

Centralized Cloud Database

LAN/5G

Centralized Control Room

Web Dashboard

Smart Dustbin App

Mobile App

KEY BENEFITS

All-in-One Analytics Platform:

Integrates upto 50+ AI-based features into a single, centralized solution covering all major use cases.

Real-Time Monitoring & Alerts:

Enables immediate event detection, real-time alerts, and rapid, coordinated incident response.

Custom AI Model Training:

Allows organizations to train models on their own datasets for improved accuracy and relevance.

Edge AI for Minimal Infrastructure:

Performs efficient on-device processing, significantly reducing cloud dependency, bandwidth consumption, and system latency.

Multi-Domain Support:

One platform supports security, traffic, industrial, smart city, and retail analytics simultaneously.
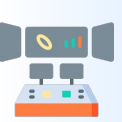
Cloud & On-Prem Flexibility

Offers deployment on cloud, on-premises, or hybrid environments based on operational needs.

Seamless Integration

Seamlessly connects with legacy systems, third-party software, and existing infrastructure for smooth integration and operation.
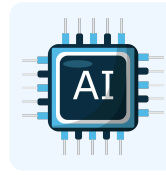
Centralized Command & Control

Unified dashboard ensures complete situational awareness, streamlined operations, and effortless system-wide control.

UNIQUE SELLING POINTS

CERT-In Certified

Complies with Indian cybersecurity standards, with strong encryption and HTTP/2 protocol support.

Edge AI-First Design

Built with native support for edge computing — enabling faster, distributed data processing.

Role-Based Smart Monitoring

Features built-in alerting, auto-ticketing, and hierarchical role-based access control (RBAC).

Modular and Scalable

Scales effortlessly from pilot deployments to enterprise-grade implementations without redesign.
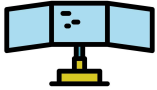
Plug-and-Play API Architecture

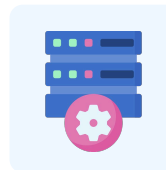Offers ready-to-use APIs for rapid integration with external systems and applications.

Secure by Design

Cybersecurity is baked into the architecture, minimizing external vulnerabilities from day one.

Unified VMS Integration

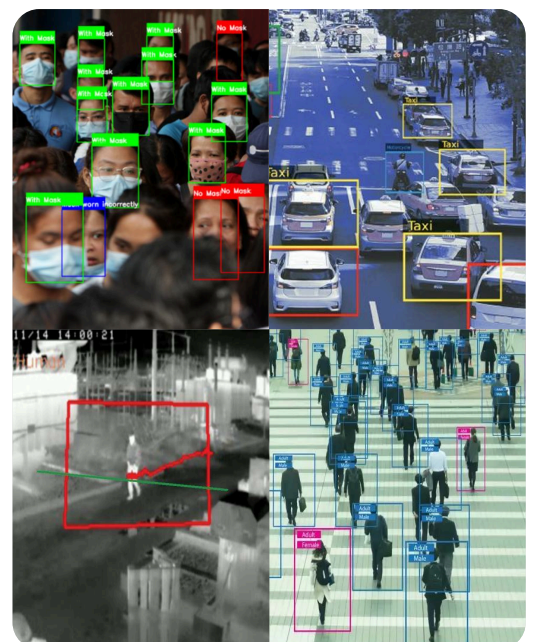Comes with a built-in Video Management System for seamless control and analytics in one interface.

Storage Optimization

Latest compression technology & event-based recording to reduce storage costs without losing critical footage.

In an era where data-driven decisions and real-time intelligence are critical, our AI-based Video Analytics System offers a transformative approach to monitoring, security, and operational efficiency. Designed for scalability and adaptability, it caters to diverse sectors such as security, traffic, retail, industrial safety, and smart cities — all through a unified, centralized platform.

With over 50+ analytics capabilities, customizable AI models, and robust integration options, our solution replaces fragmented tools with one powerful ecosystem. It not only enhances safety and situational awareness but also unlocks actionable insights that drive informed decision-making.
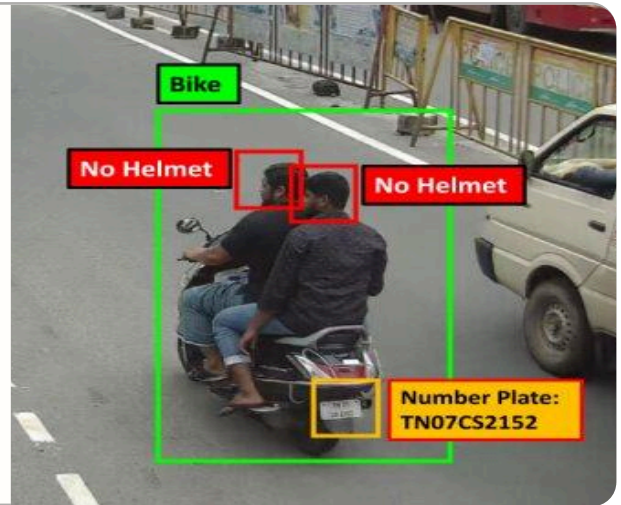
Whether you're looking to modernize surveillance infrastructure, automate compliance, or ensure public safety, our solution delivers measurable results — reliably, efficiently, and intelligently. Step into the future of monitoring with a solution that's built for performance, security, and growth.

Traffic Management & Violation Detection

- Real-time vehicle monitoring and automatic detection of violations such as red-light jumping, wrong-way driving, overspeeding, and helmet/seatbelt non-compliance.
- Integration with Adaptive Traffic Control Systems (ATCS) and Intelligent Traffic Management Systems (ITMS) for smoother traffic flow.

Crowd Management & Public Safety

- Crowd density analysis, suspicious activity detection, and loitering alerts in public spaces, religious gatherings, fairs, and protests.
- Useful for disaster management, VIP security, and high-footfall zones.

Asset & Inventory Surveillance

- Missing object detection in warehouses, packaging lines (e.g., missing pills), and inventory management facilities.
- Detection of rodent activity or tampering with stored goods.

Safety Compliance Monitoring

- Automated detection of PPE kits, helmets, and life jackets for construction sites, roadwork crews, and marine operations.
- Helps ensure adherence to safety standards in industrial and field environments.

TRUSTED BY

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