

Offerings on the **AWIROS APPSTACK**

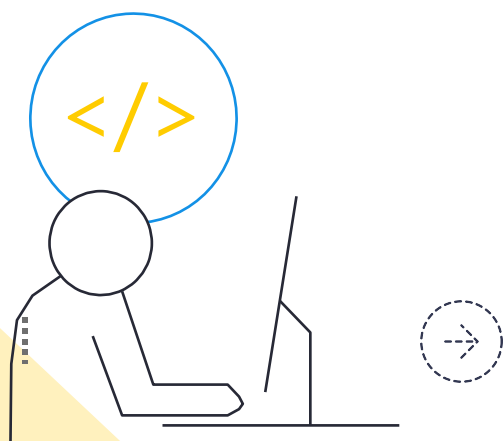


Awiros AppStack

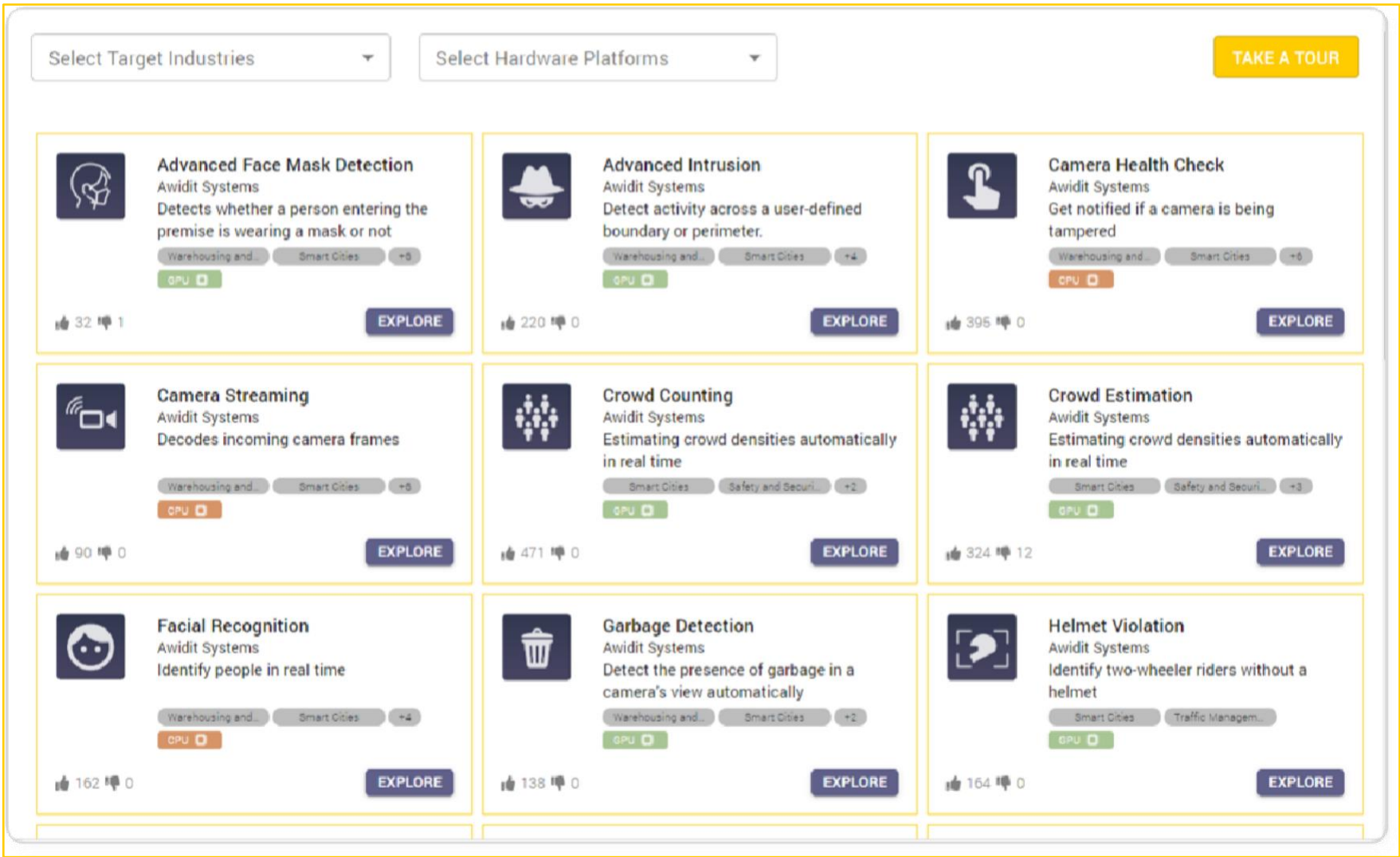
The world's first Video AI App marketplace

Video AI apps for multiple industry segments and multiple hardware

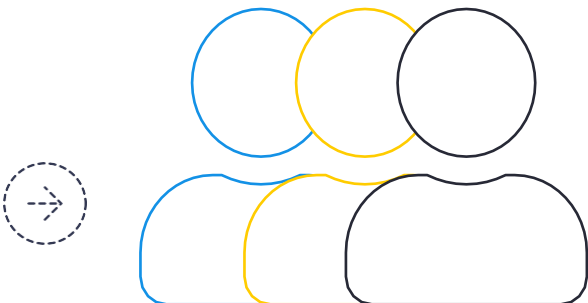
50+ Video AI Apps are available on the Awiros AppStack for a wide variety of industry verticals



Developers develop apps and host them on the AppStack



[Visit Awiros Appstack](#)



Users discover the apps for their needs and deploy them on their video sources

Application for a variety if industry segments

Click on your industry of interest to view available use cases



[Smart Cities](#)



[Smart Traffic](#)



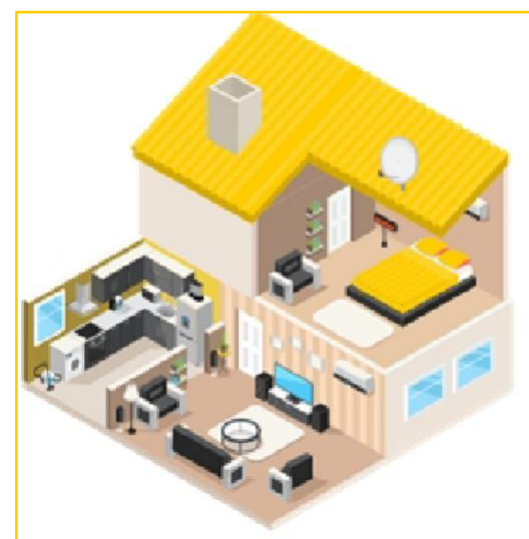
[Manufacturing](#)



[Warehousing](#)



[Retail](#)



[Smart Homes](#)

Or view one of our flagship apps



[Automatic Number Plate Recognition \(ANPR\)](#)



[Facial Recognition](#)



[Large Scale Crowd Estimation and Management](#)



[Personal Protective Equipment \(PPE\) Detection](#)



[Facial Recognition based Attendance Management \(FRAM\)](#)



[Pothole Detection](#)



[Camera Health Monitoring](#)



[Footfall Analytics](#)



[Helmet Violation Detection](#)

Apps for Smart and Safe Cities

01



[Automatic Number Plate Recognition \(ANPR\)](#)

02



[Helmet Violation Detection](#)

03



[Vehicle Counting and Classification](#)

04



[Pothole Detection](#)

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[Garbage Detection](#)

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[Large Scale Crowd Estimation and Management](#)

07



[Camera Health Monitoring](#)

Traffic Management Apps

Municipality Centric Apps

Law Enforcement Apps

Citizen Safety Apps

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[Crowd Counting](#)





Automatic Number Plate Recognition (ANPR)

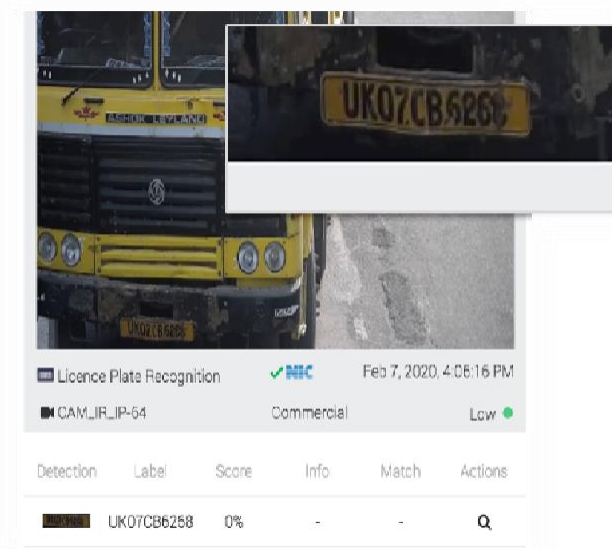
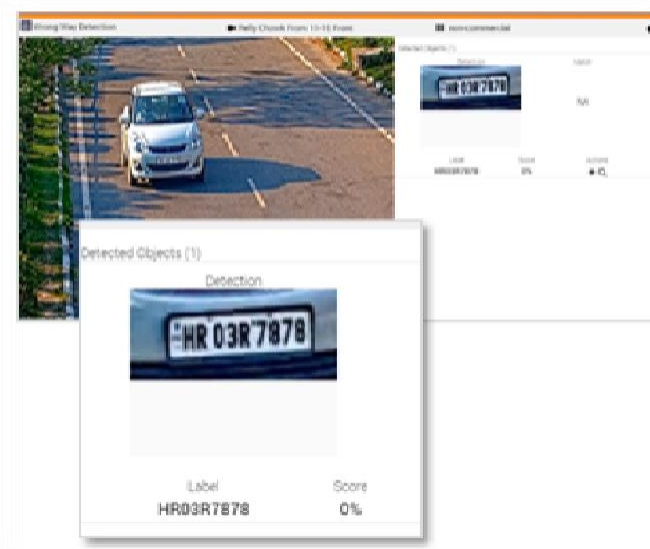
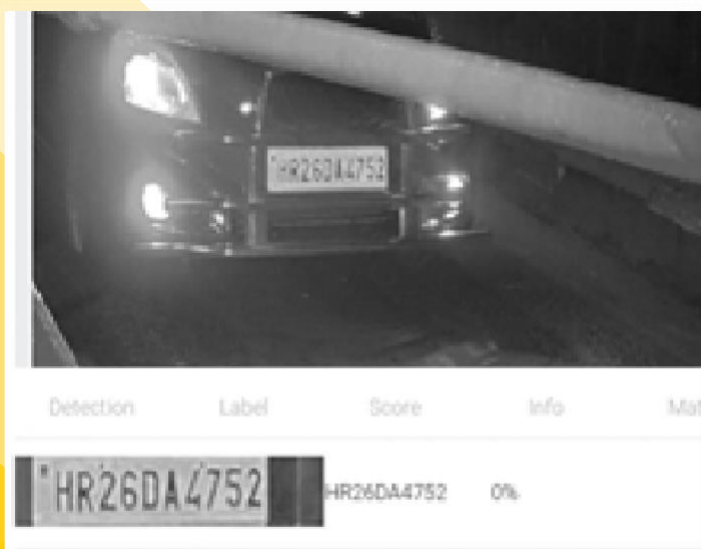
A highly optimized Deep Learning based solution that recognizes number plates in real-time without using any kind of specialized cameras

- No specialized ANPR cameras required, works with all kinds of vari-focal IP cameras
- Uses Awiros' proprietary Bi-directional LSTM based OCR engine to recognize number plates with a character level accuracy of more than 95%.
- A single camera can be used for monitoring vehicles on multiple lanes.

Tracking Vehicles of interest across locations

Using filters on the Awiros Grid, the app can also be used for tracking the movement of any Vehicle of Interest across locations

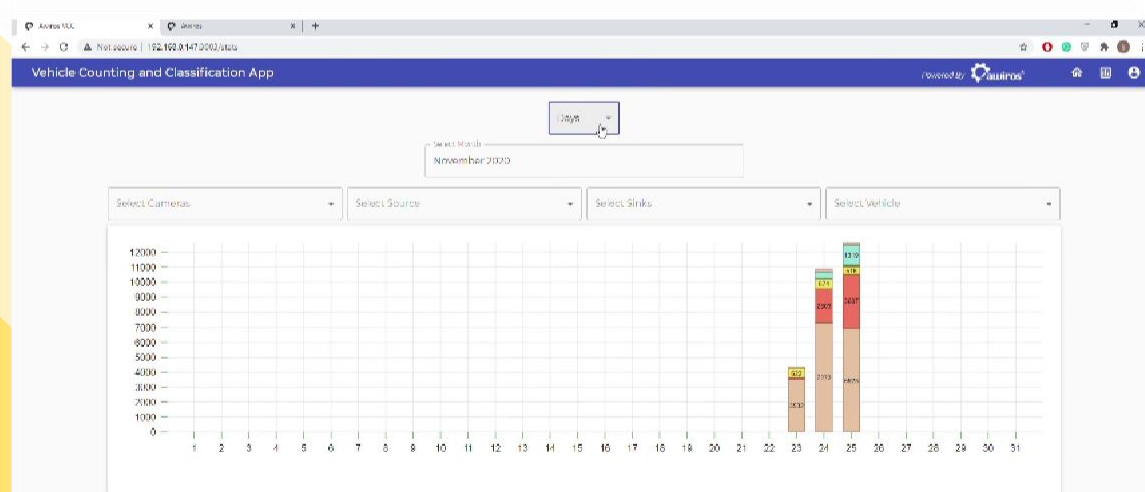
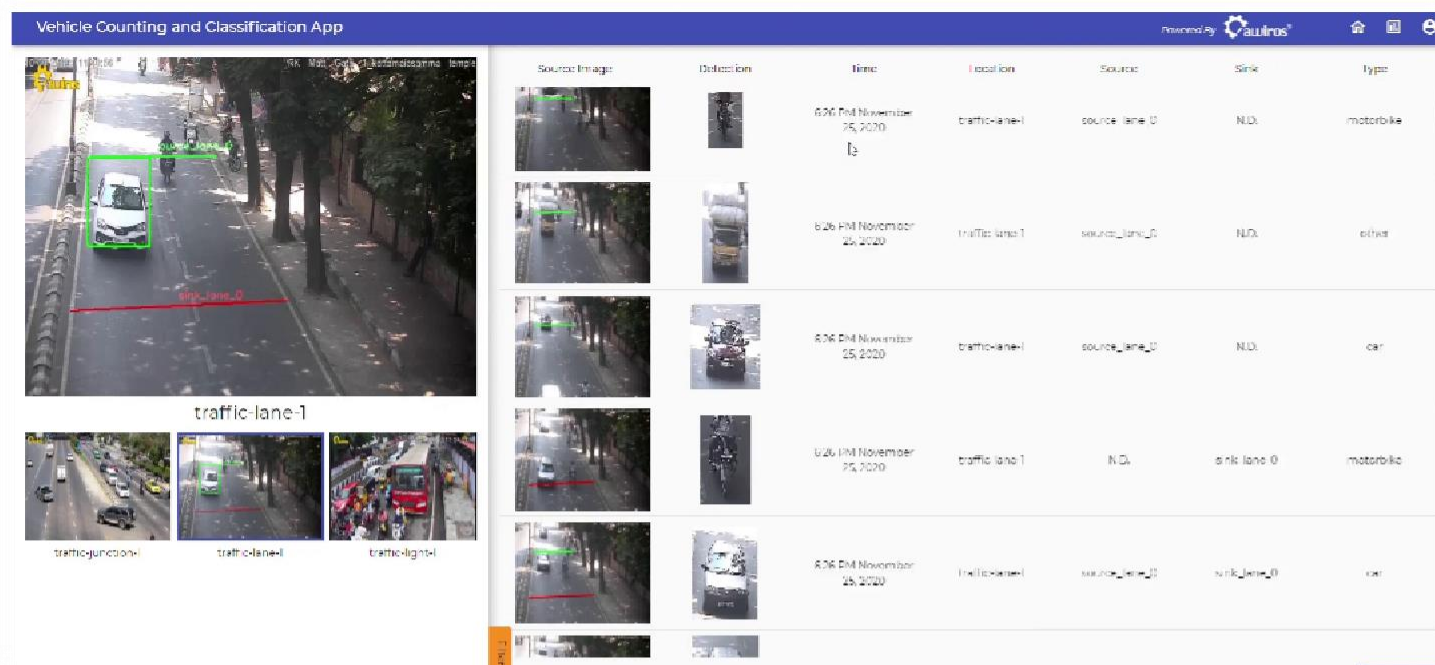
[Watch Video](#)





Vehicle Counting and Classification

Identifies vehicle attributes such as type, color, make and model in real time while keeping a track of traffic volumes.

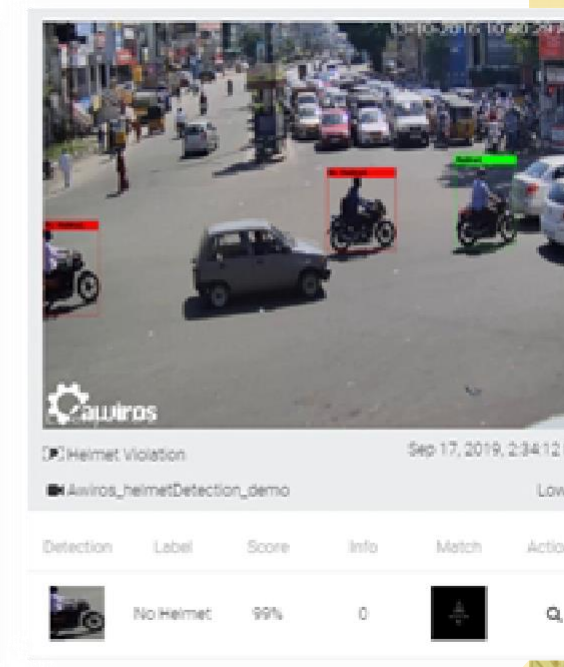
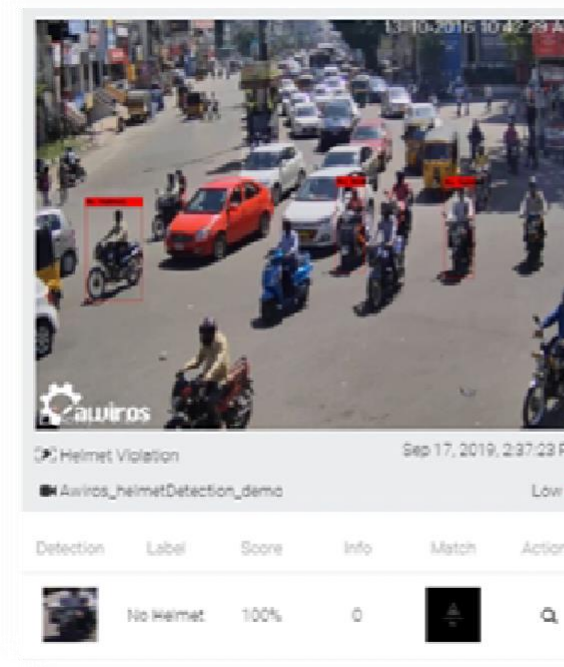


It also shows detailed statistics of traffic data which helps in identifying patterns in traffic movement



Helmet Violation Detection

Two-wheeler riders who do not have a helmet on can be identified.





Facial Recognition

Using Facial Recognition on CCTV cameras, every individual present on a certain premises can be identified.

Individuals can be assigned different severity levels.

Partially obscured faces can also be identified



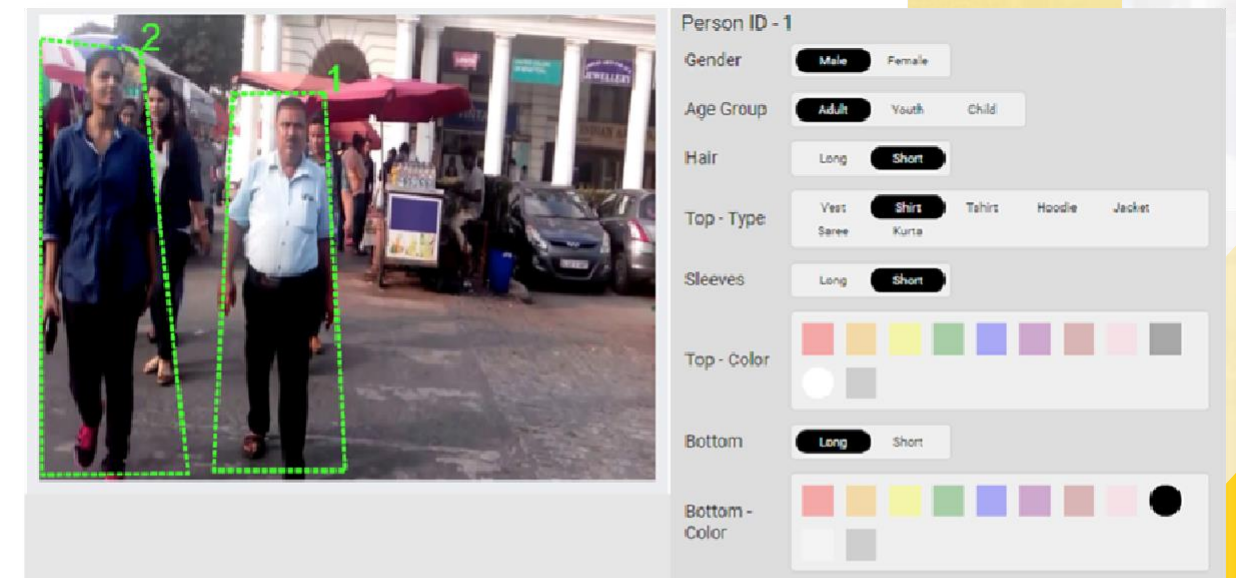
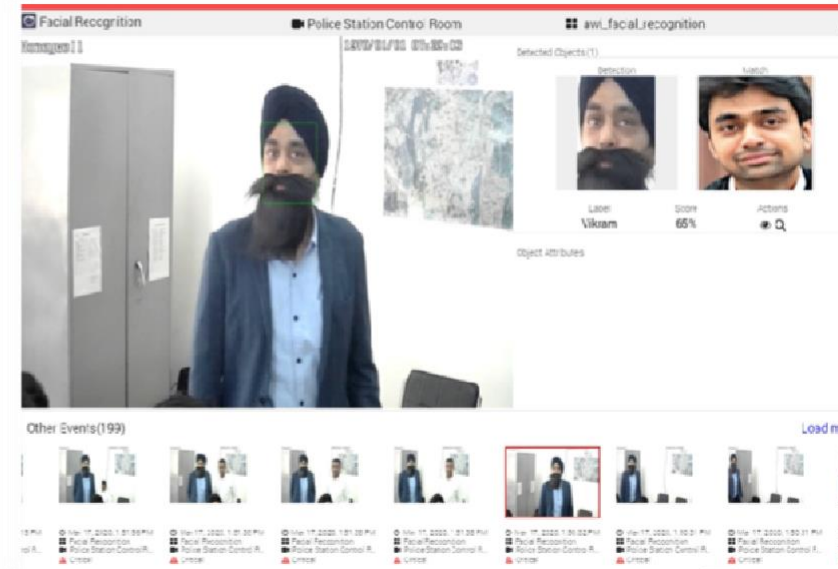
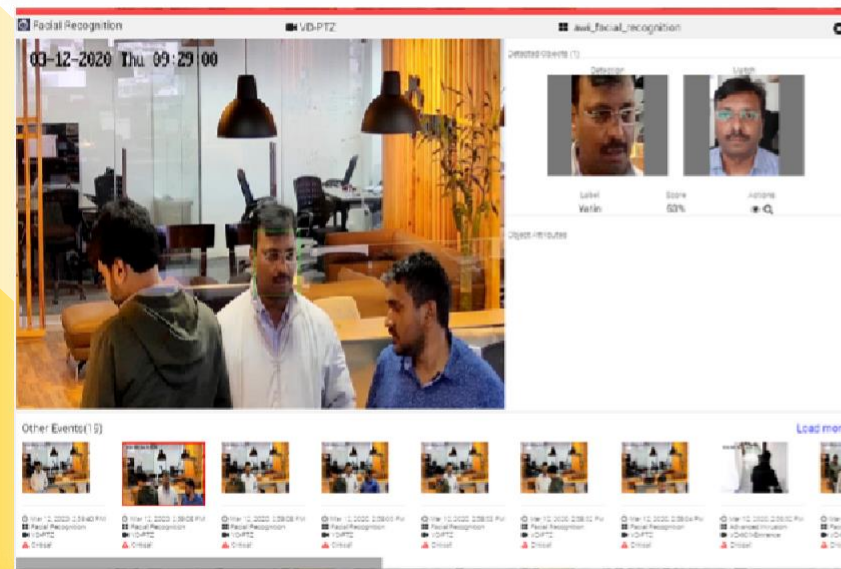
↳ Deployed on 250+ cameras during the 33rd Surajkund International Art and Craft Fair in collaboration with Haryana Police

↳ Awiros is the first DIPP registered startup to have its Facial Recognition listed on NIST



Attribute based Person Search

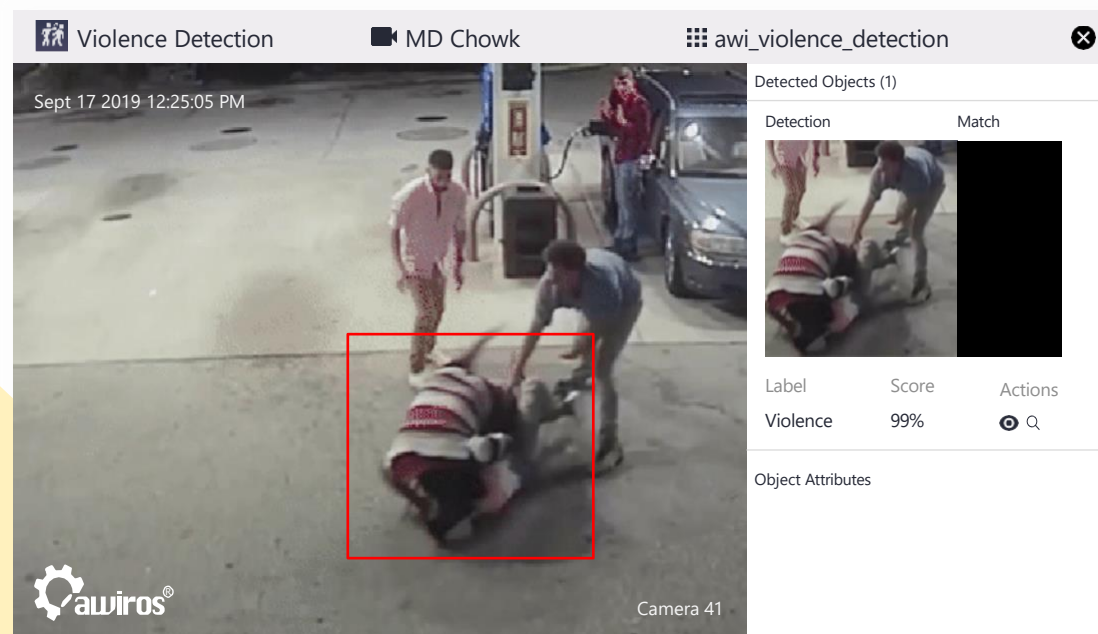
Search for a person of interest across camera locations based on general attributes such as gender, age-group, top-color, top-color





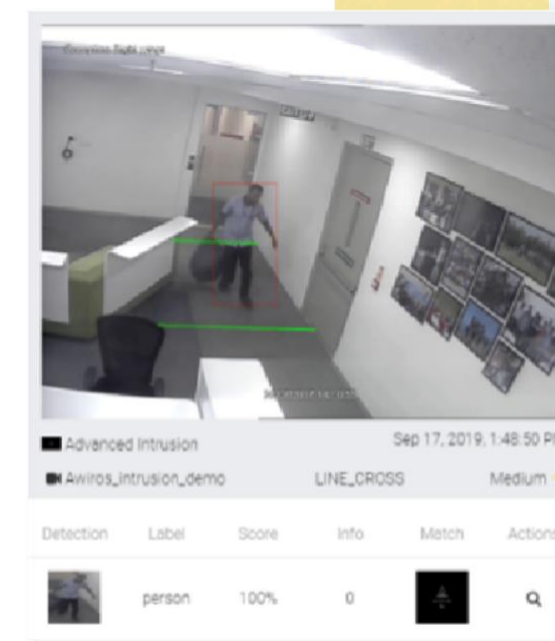
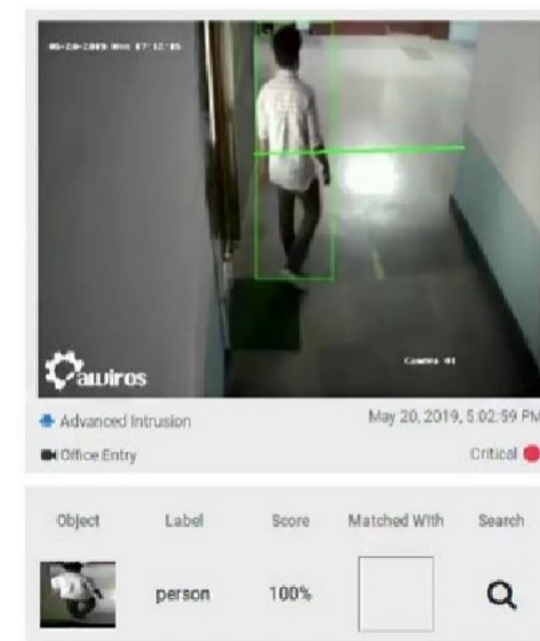
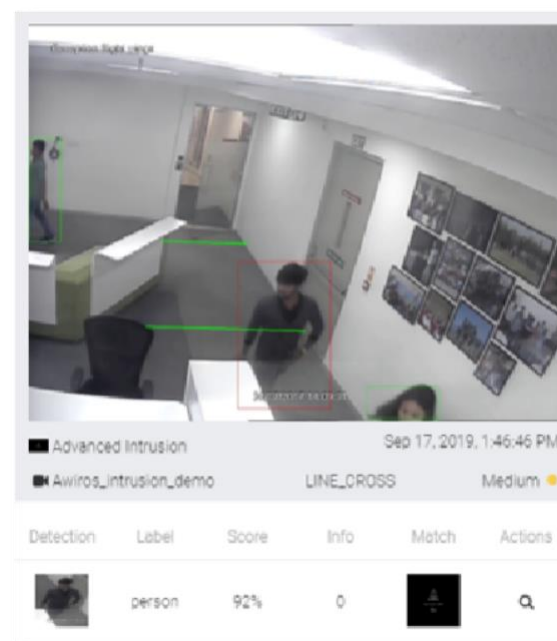
Violence Detection

The app allows you to set thresholds for the total number of people that may be present in an area and generates alerts if that number is crossed.



Advanced Intrusion Detection

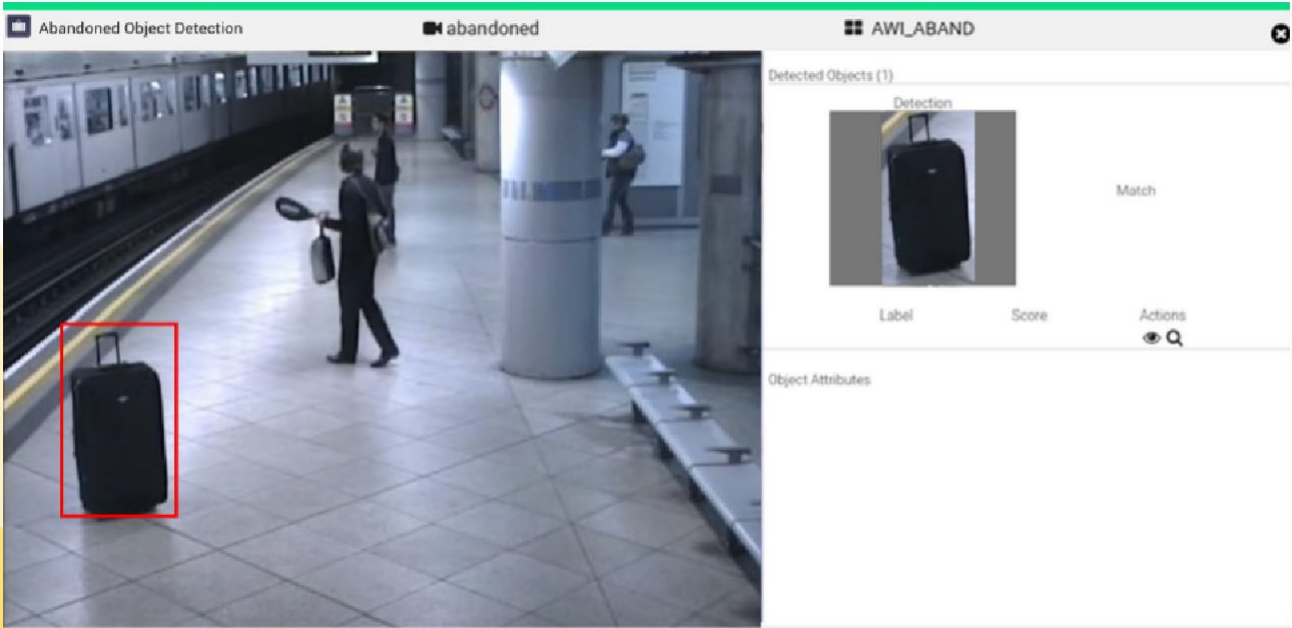
This application can be used for monitoring activity in and around a restricted perimeter. The user can define a 'fence' of any shape and dimensions within the camera view and the system generates alerts whenever there is activity across this perimeter. Using a Deep Learning based object classifier the application can also notify the user about the type of object that has crossed the perimeter





Abandoned Object Detection

Abandoned/ Suspicious
objects can be identified
based on the duration
for which they have
been left unattended



People Counting

The app allows you to set thresholds for the total
number of people that may be present in an area
and generates alerts if that number is crossed. This
app can also help in ensuring social distancing.



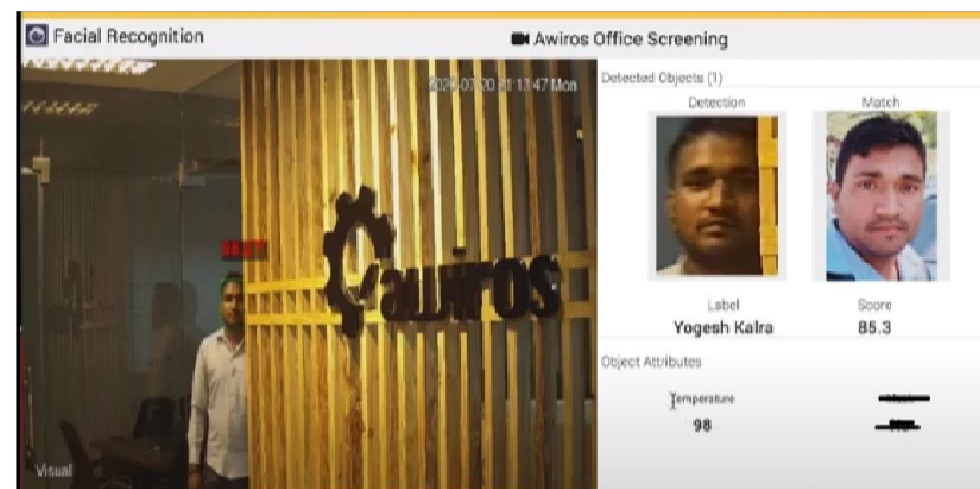


Thermal Management

This app generates alerts if an individual is found to be having a high body temperature



[Watch Video](#)

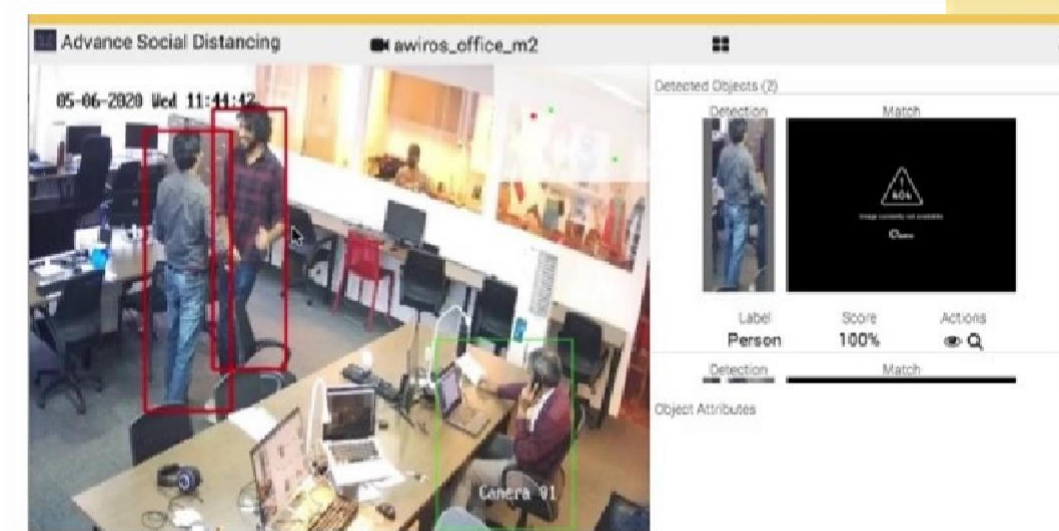


Social Distancing Detection

This app generates alerts if the norms of social distancing are violated



[Watch Video](#)

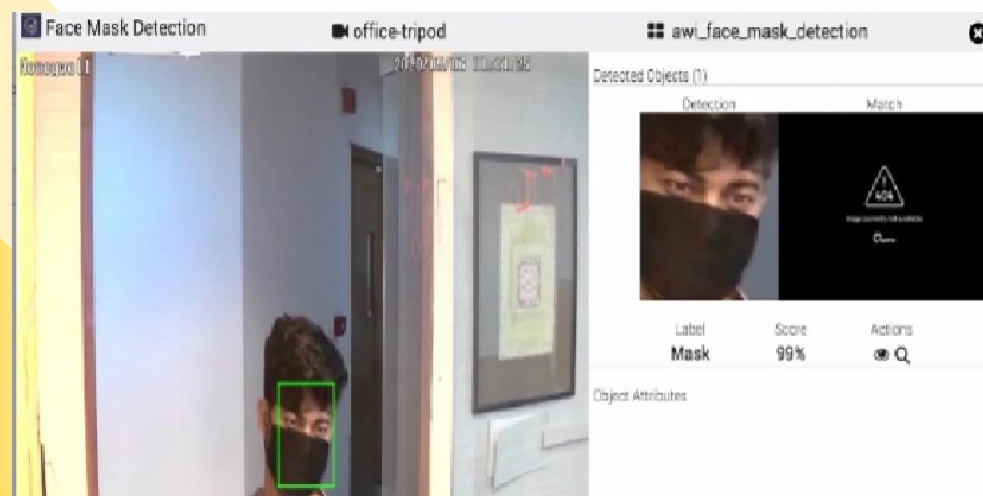


Face Mask Detection

This app automatically detects the absence of face masks on people's faces



[Watch Video](#)





Garbage Detection

Garbage accumulated in a region gets automatically identified

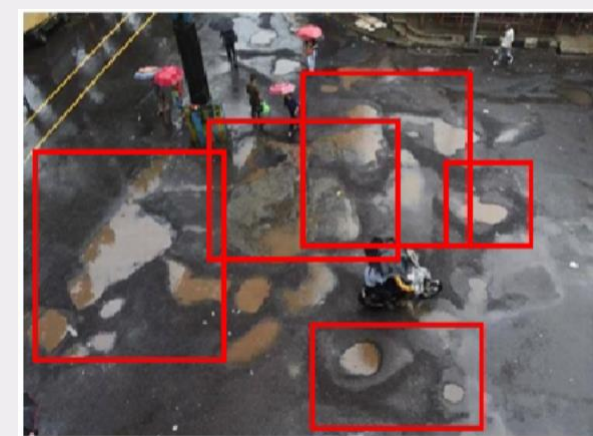


Pothole Detection

The app automatically detects the presence of potholes on the road



Detection	Label	Score	Info	Match	Actions
	Garbage	100%	0		



Detection	Match	Label	Score	Actions
		Pothole	99%	



Large Scale Crowd Estimation and Management

The Awiros Crowd Estimation app is used for estimating crowd volumes in case of very large crowds- of magnitudes varying from a few hundred to several thousands. This Deep Learning based solution estimates the total number of people present in a camera's field of view in real time.



[Watch Video](#)

Winner of 2 National Level Governance Awards

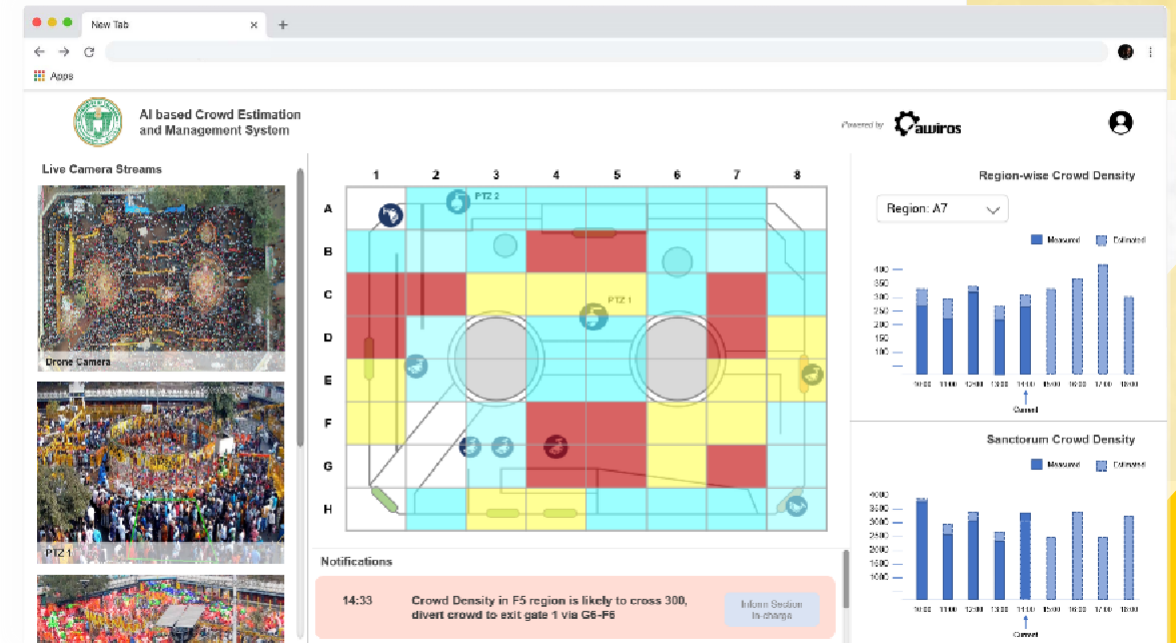
Notable Projects

India vs West Indies T20i match at Rajeev Gandhi Stadium, Hyderabad, 2019

The app was used for estimating the total number of people present in the stadium, which it estimated with an accuracy of more than 93%. Post this successful demonstration the app was formally launched for the state of Telangana by Mr. N. Rama Rao, Hon'ble Minister of IT, Government of Telangana

Medaram Jathara Festival in Telangana, 2020

Medaram Jathara is the biggest tribal festival in all of Asia and sees the participation of close to 10 million devotees from several states every year. The Awiros Crowd Estimation App was used by the Telangana Police Department for monitoring the crowd at a number of different locations within the Sanctum Sanctorum.



Apps for Traffic Management

01

Traffic Management Apps



[Automatic Number Plate Recognition \(ANPR\)](#)

02



[Helmet Violation Detection](#)

03

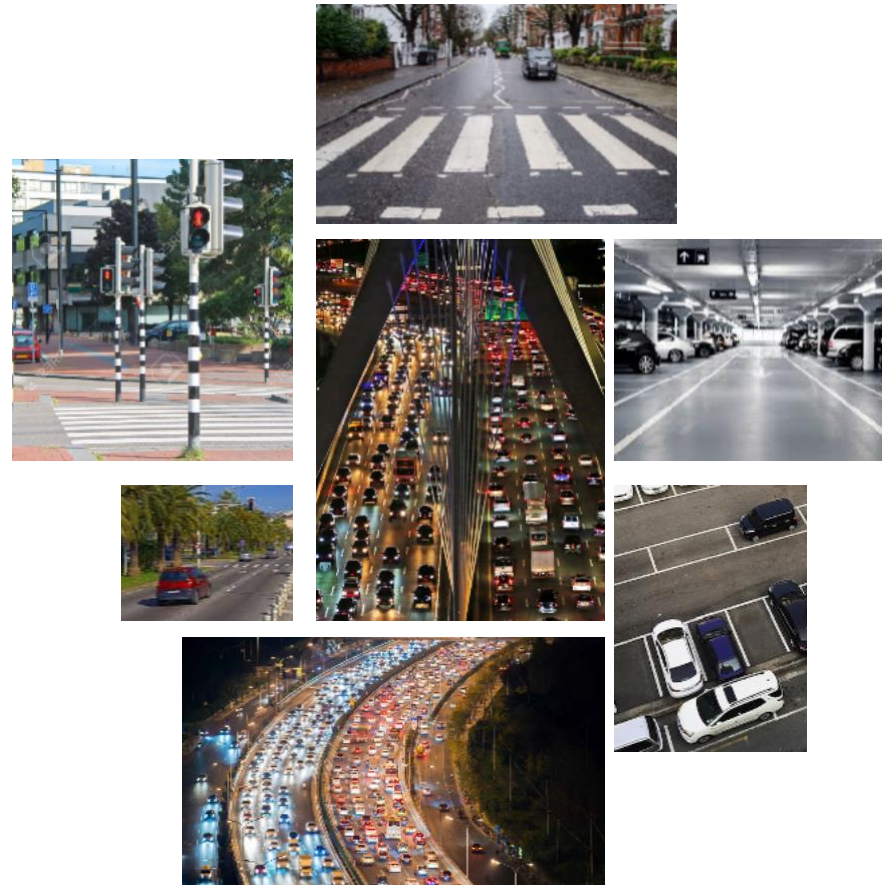


[Vehicle Counting and Classification](#)

04



[Red Light Violation Detection](#)



05



[Speed Violation Detection](#)

06



[Zebra Crossing Violation Detection](#)

07



[Parking Violation Detection](#)

08



[Wrong Way Detection](#)



Automatic Number Plate Recognition (ANPR)

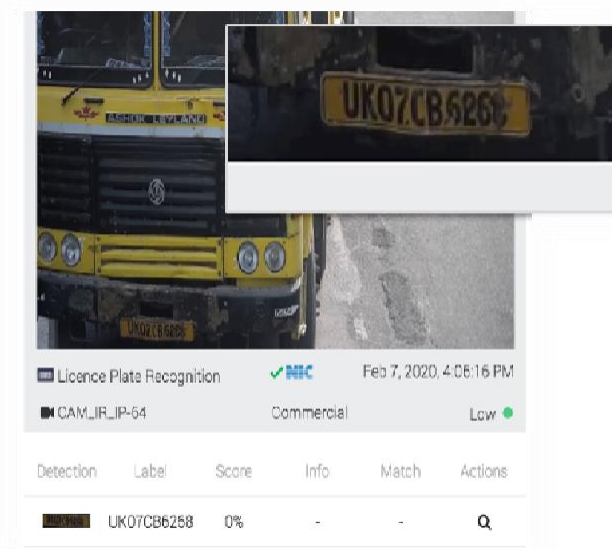
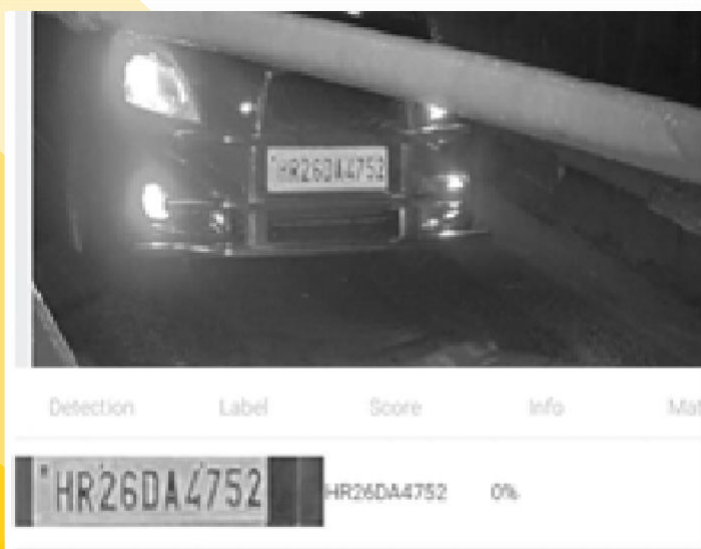
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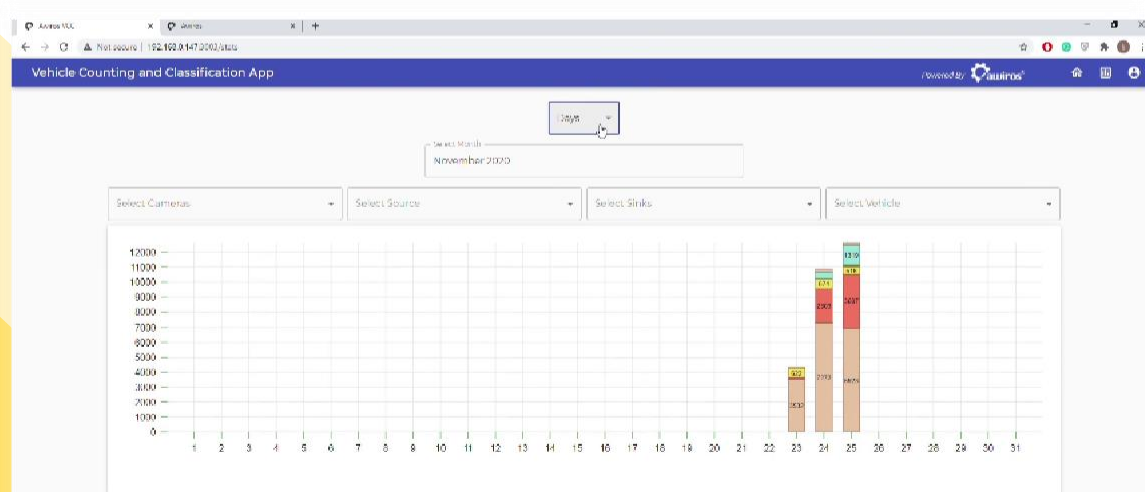
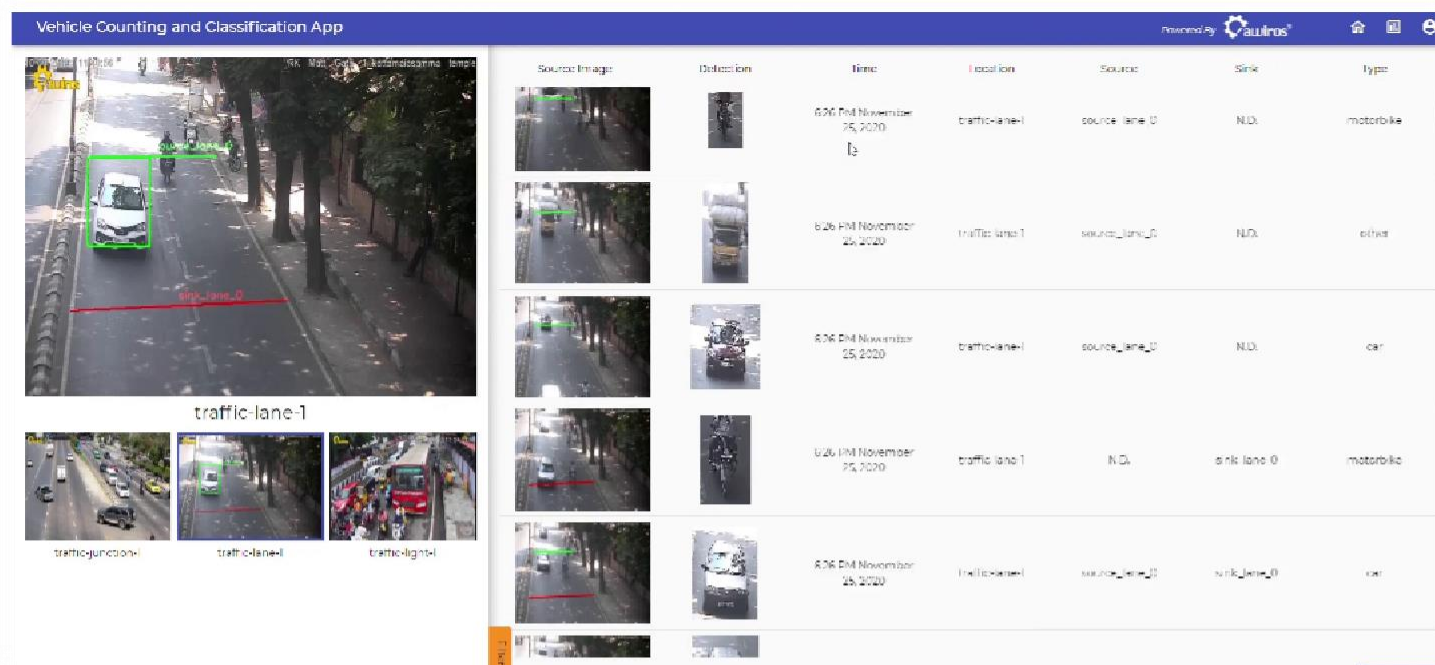
[Watch Video](#)





Vehicle Counting and Classification

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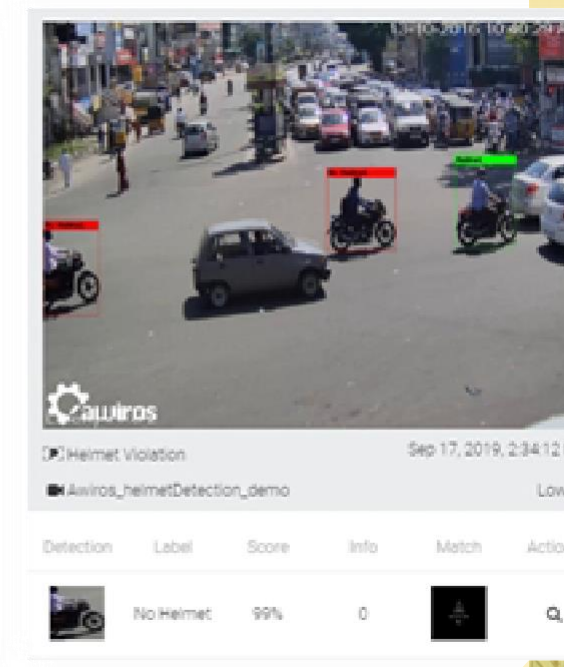
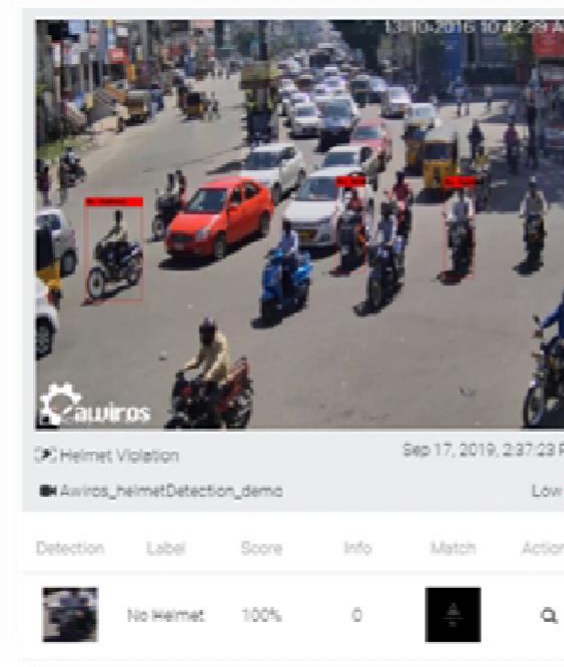


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Helmet Violation Detection

Two-wheeler riders who do not have a helmet on can be identified.





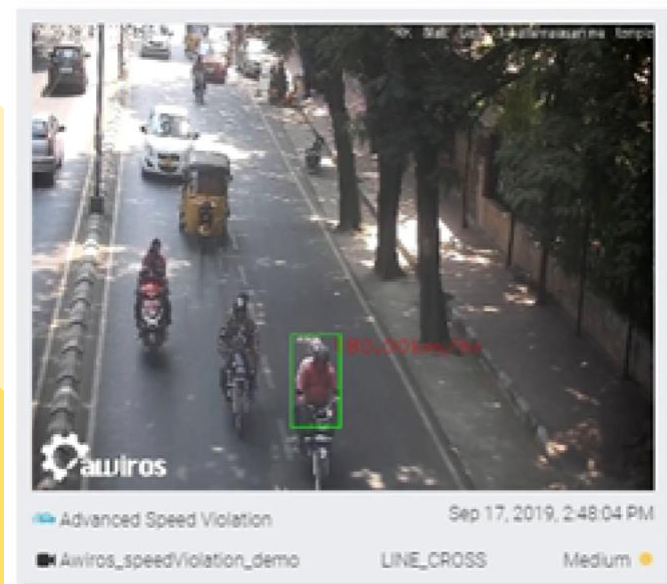
Speed Violation

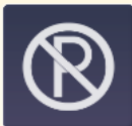
Speed of any vehicle can be known in real time. The system can automatically generate alerts in case a vehicle is found to be violating the set speed limit.



Zebra Crossing Violation

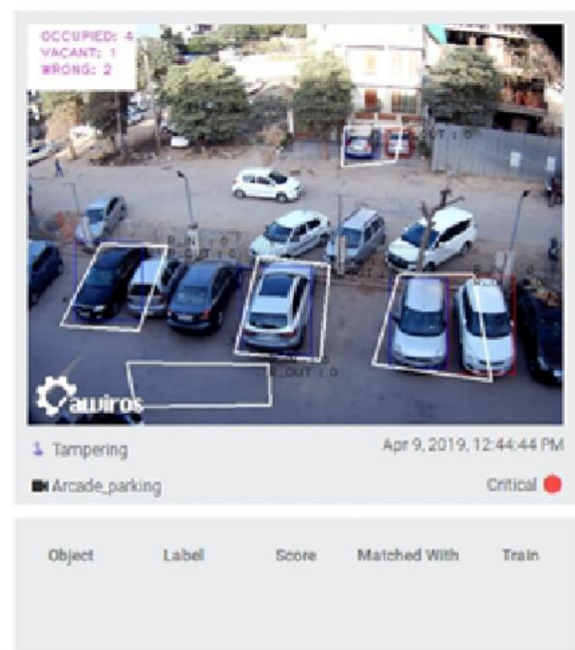
Any vehicle found to be covering the zebra crossing area at the time of a red light gets automatically identified





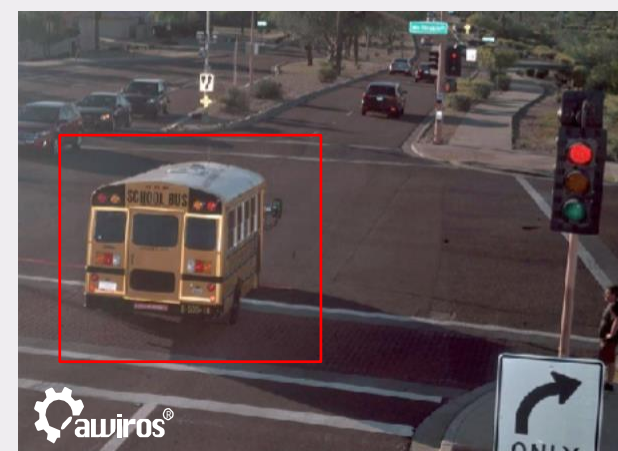
Parking Violation

Wrongly parked vehicles can easily be identified



Wrong Way Detection

This app allows user to define correct direction of traffic on any given road. Once that is done, any vehicle found to be moving in the opposite direction gets automatically identified.



Red Light Violation

Violation of traffic signals can be easily detected. With ANPR, this can also be used for identifying the vehicles involved in such violations.



Wrong Way Detection
Police Station Sec-43
Low

Apps for Manufacturing Industry

01

Manufacturing Industry Apps



[Smoke Detection](#)

02



[Facial Recognition based Attendance Management \(FRAM\)](#)

03



[Personal Protective Equipment \(PPE\) Detection](#)



04

Manufacturing Industry Apps



[Fire Detection](#)

05

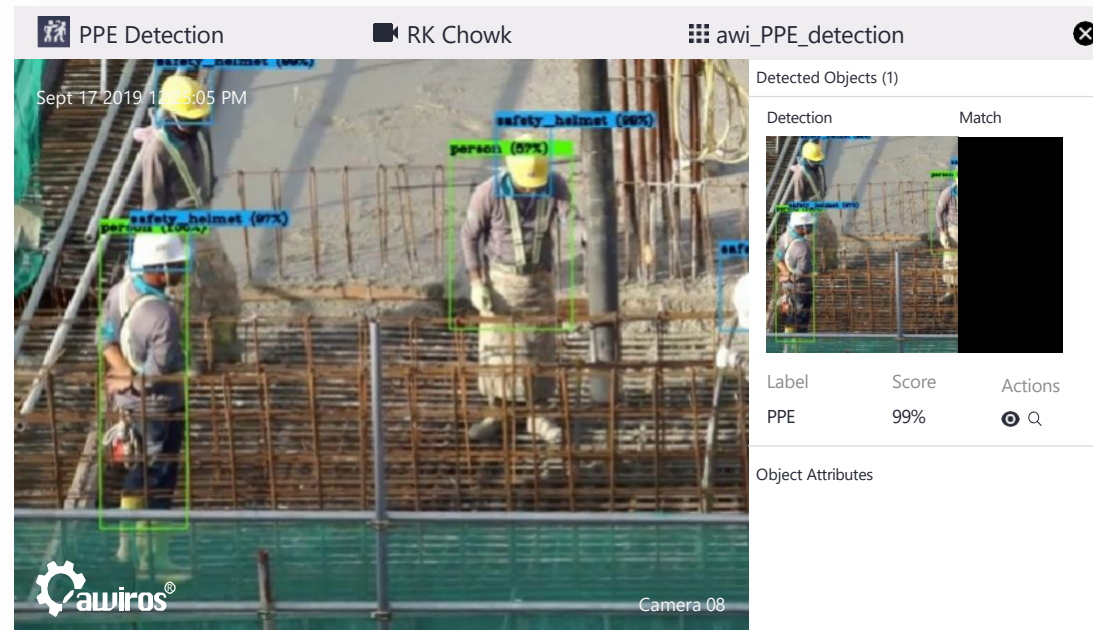


[Mobile Phone Usage Detection](#)



Personal Protective Equipment

 [Watch Video](#)



This app detects the presence of protective equipment on personnel working in the field and generates an alert if a worker is found not to be wearing a certain piece of equipment.

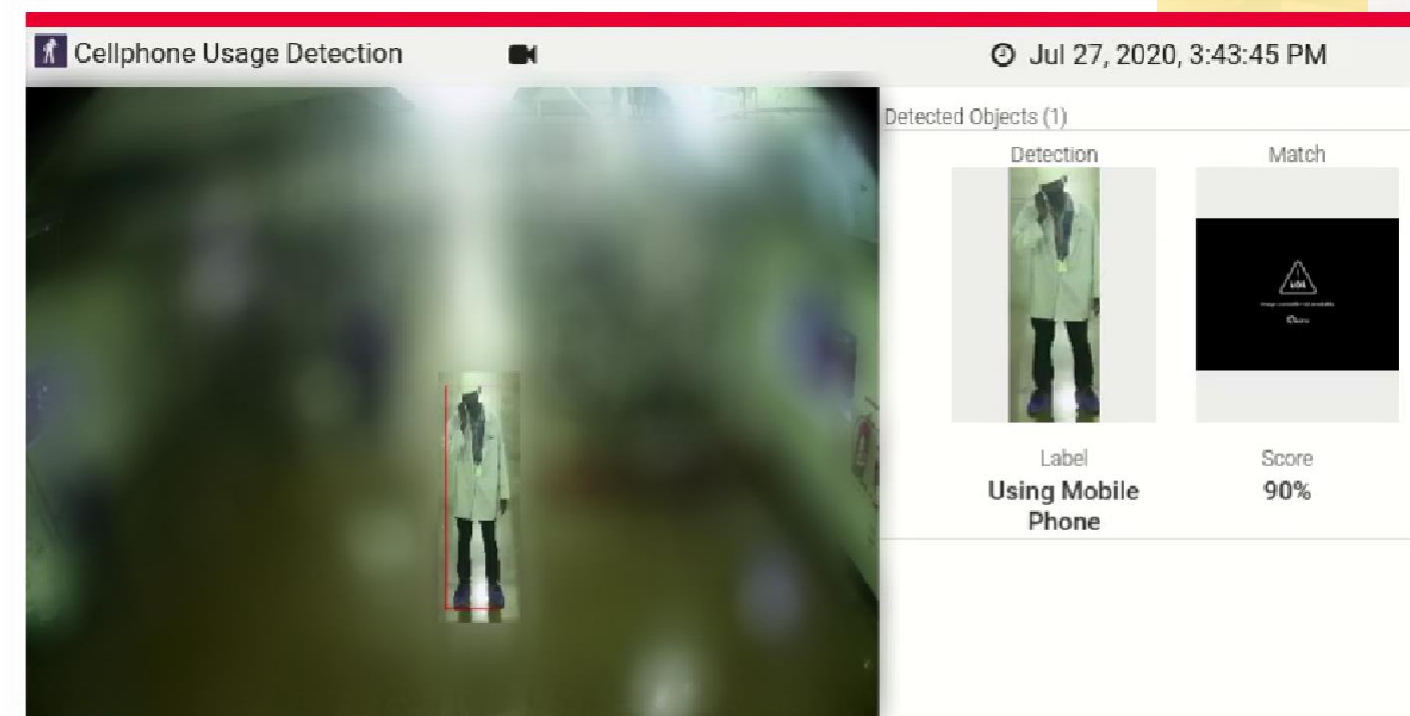
Automatically Detects

- Safety Helmets
- Safety vests
- Boots
- Gloves
- Face Masks



Mobile Phone Usage Detection

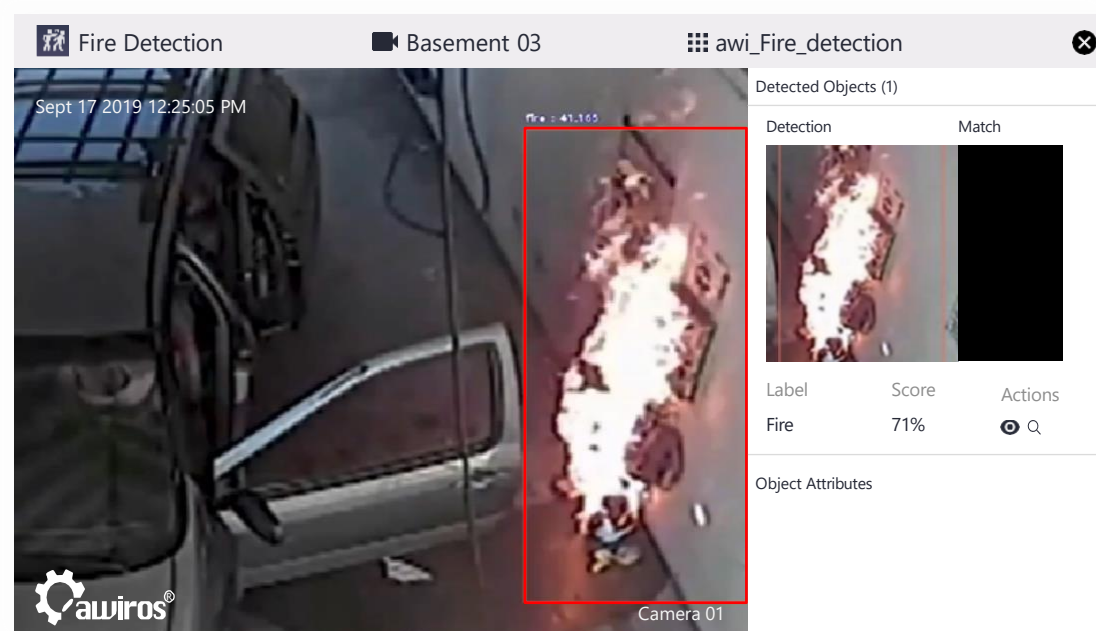
Get notified if a worker is using a mobile phone on the shop floor





Fire Detection

 [Watch Video](#)



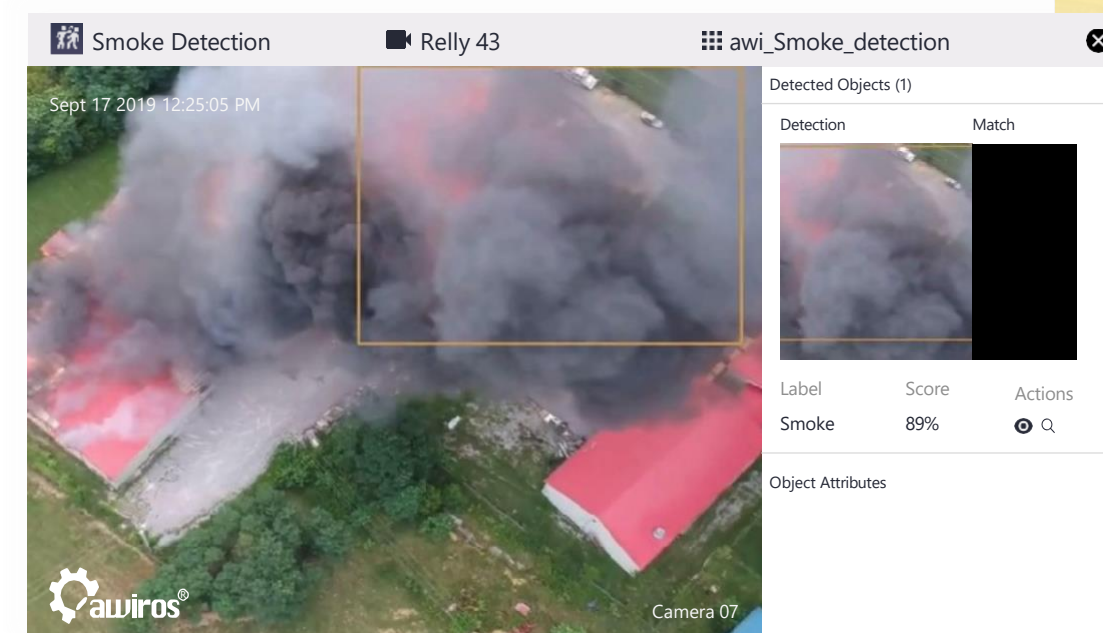
Detects the presence of
fire in a camera's view



Smoke Detection

The app automatically detects the
presence of smoke in a camera's view

 [Watch Video](#)

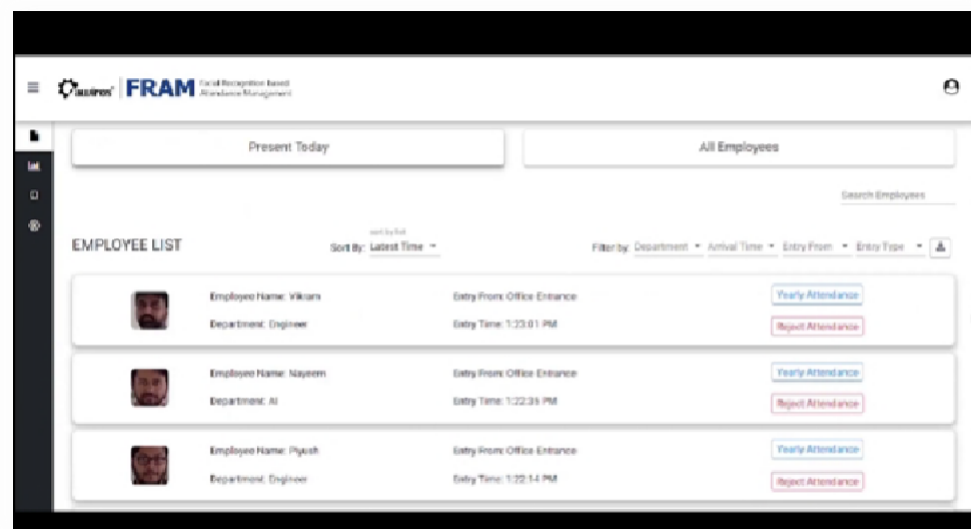




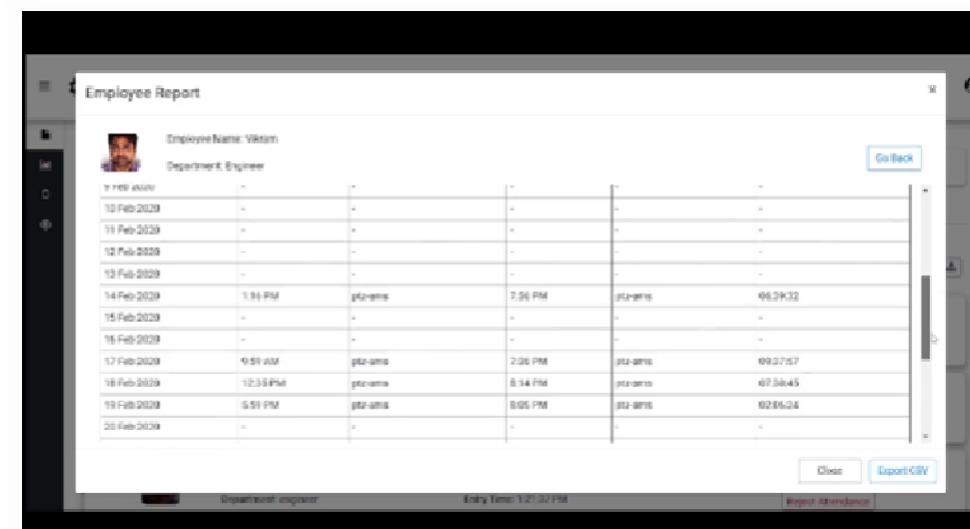
Facial Recognition based Attendance Management (FRAM)

[Watch Video](#)

Track the attendance of all your employees using Facial Recognition



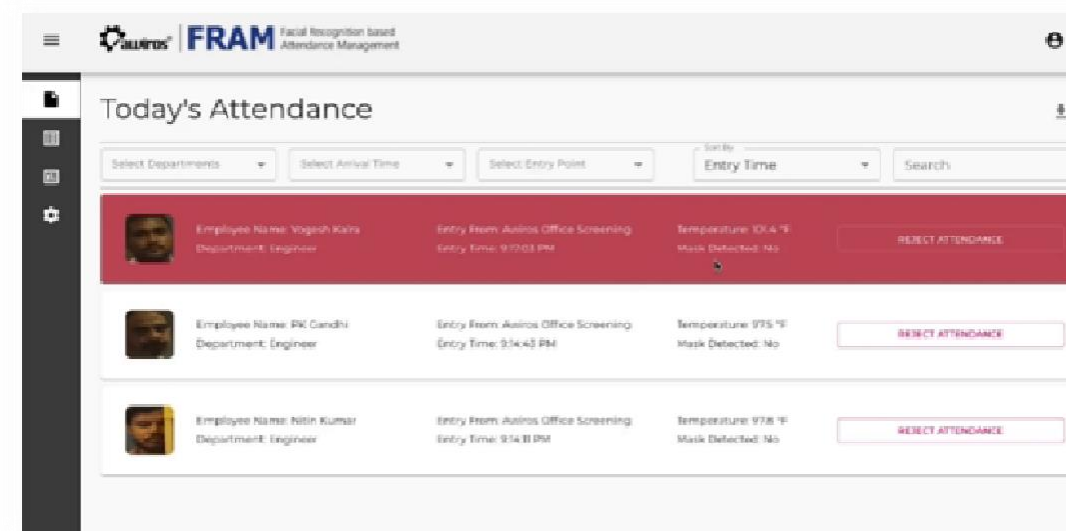
Mark your attendance using your face



Automatically keeps track of entry/exit time and location of every individual



View the yearly and monthly attendance record of each employee



Can also be integrated with Face Mask Detection/ Temperature monitoring system to highlight individuals with high body temperature or without face mask

Apps for Retail

01

02

Customer Journey Tracking & Visual Inventory Management



[Customer Journey Tracking](#)



[Visual Inventory Management](#)



03

04

05

Footfall Analytics, Activity Heatmaps & Dwell Time Estimation



[Footfall Analytics](#)



[Activity Heatmaps](#)



[Dwell Time Estimation](#)



The Awiros Footfall Analytics app provides you with reliable footfall data for every individual store as well as for every section within a store. This data can be viewed for every week, day and hour and can be analyzed in a number of ways to extract valuable insights



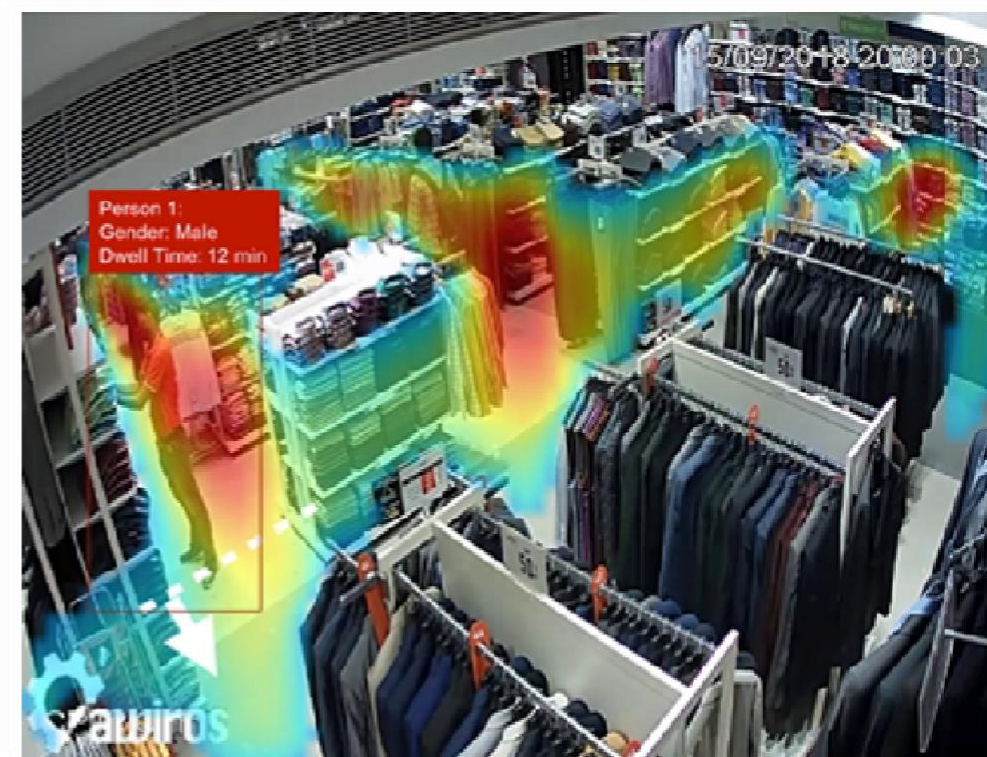
ACTIVITY HEATMAPS

Comprehensive activity heatmaps help you in identifying your most active sections and subsequently, tracking customer interests. These heatmaps can also help you in planning promotional campaigns



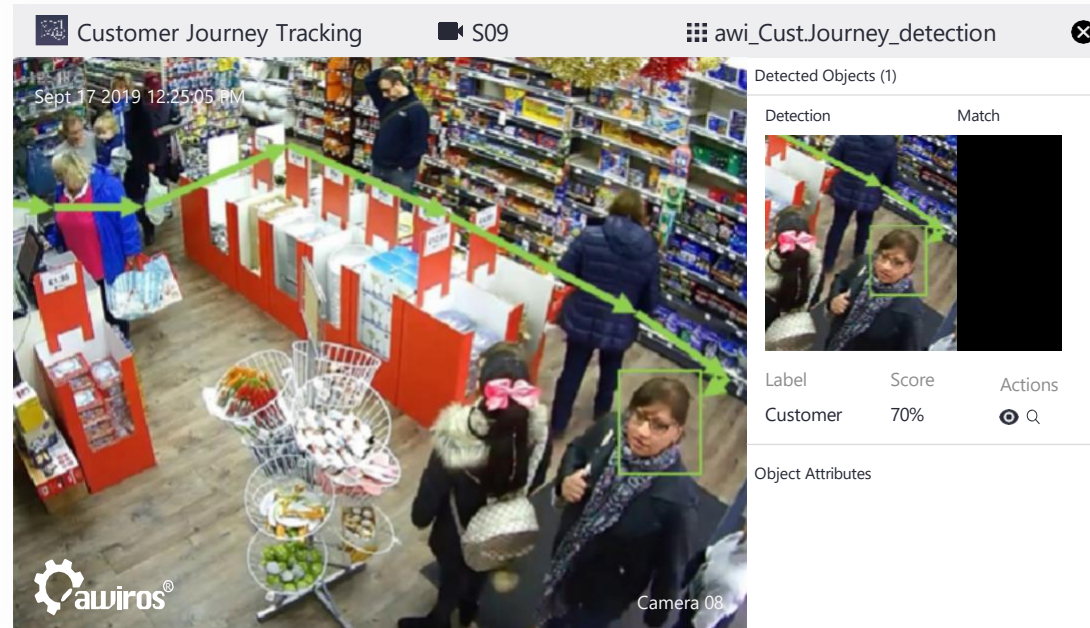
Dwell Time Estimation

The Dwell Time Estimation app keeps track of the time spent by every customer inside the store. Using the dwell time data for multiple customers, the app then evaluates the average dwell time for every individual section within the store. Dwell time estimates can also be obtained for different customer demographics, such as age and gender. Dwell time estimates help in tracking customer interests as well as evaluating the amount of traction gained by promotional campaign





Customer Journey Tracking



Using Facial Recognition, the journey of every customer within the store can be tracked. By analyzing the journeys of multiple customers within the store the system can then evaluate the journey of an average customer within the store.

Customer characteristics such as age and gender can also be identified and that way typical customer journeys for different types of customers can also be identified.



Visual Inventory Management

The Visual Inventory Management system helps retailers in keeping track of the number of available items of a certain product.



Product: Persil
Bio-Wash
No. of
Units: 21

Apps for Warehouse Industry

01

Warehouse Industry Apps



[Visual Inventory Management/ Box Counting](#)

02



[Bag/Object Counting](#)

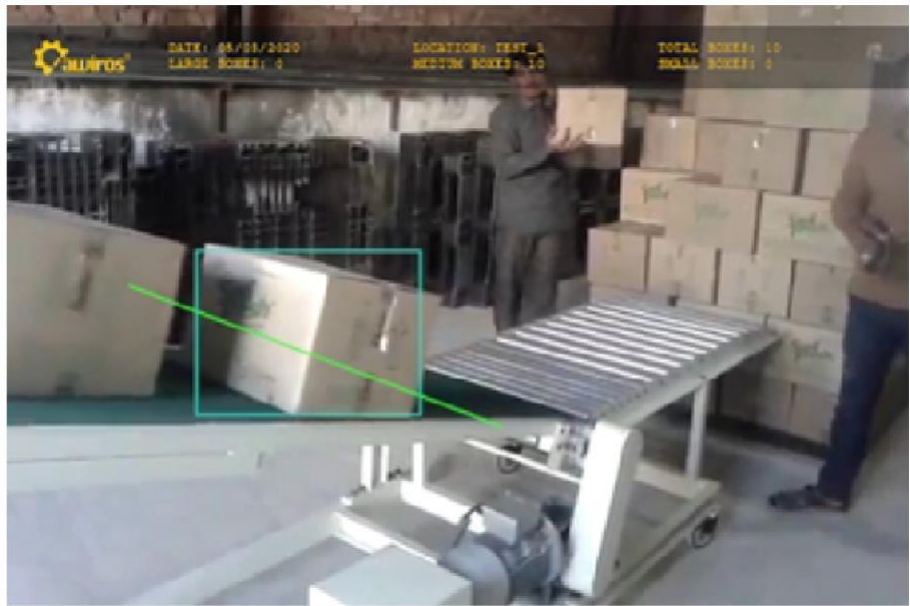




Visual Inventory Management/ Box Counting

Keep a count of the number of different SKUs, automatically.

 [Watch Video](#)



Bag/Object Counting

This app automatically keeps a count of the number of standard size bags that have been loaded/ unloaded.



Apps for Home Security

01

Home Security Apps



[Facial Recognition](#)

02



[Illegal Parking Detection](#)



03

Home Security Apps



[Camera Health Monitoring](#)

04

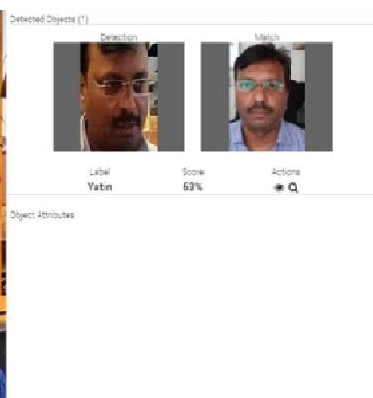


[Intrusion Detection](#)



Intrusion Detection

Check the entry of intruders into your perimeter



Facial Recognition

Know about every individual who walks into your perimeter



Illegal Parking Detection

Know if a vehicle is improperly parked in and around your property



Camera Health Monitoring

This application generates an alert whenever the view of a camera is blocked, the camera's orientation is changed or the system is unable to receive feed from the camera. Along with notifying the user about a change in the camera's state, the app also notifies the user about the reason behind the generation of the alert using a proprietary deep learning based classifier.





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