COVID COMPLIANCE MONITORING USING EXISTING CAMERAS & AI-BASED VIDEO ANALYTICS
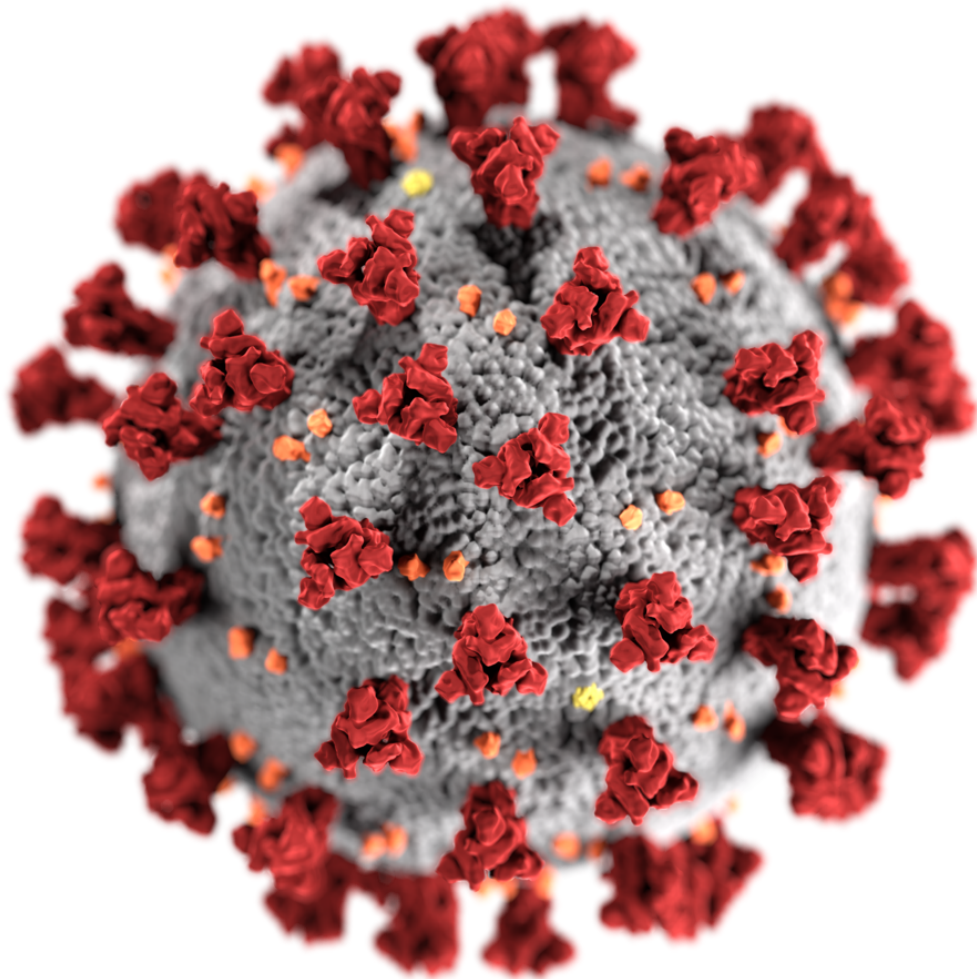
CHALLENGE

Opening up businesses during and post a pandemic, has posed many challenges to business owners and employees. Adapting to the 'New Normal' has become inevitable to run businesses, offices, residential apartments, and public places.

Maintaining social distancing and wearing masks in public are the two most prominent guidelines provided by the government to prevent the public from contracting the virus.

Automation of monitoring compliance to these guidelines reduces close human-to-human interaction, saves cost, and enables faster, actionable responses.

Here's a graph that shows the share of permanently closed businesses as of July '20. Our vision is to prevent businesses from going through such phases by helping them open up their retail outlets/offices/buildings by making them COVID-Ready!

The Share of Permanently Closed Businesses is Rising

Share of business closures* on Yelp that were temporary vs. permanent
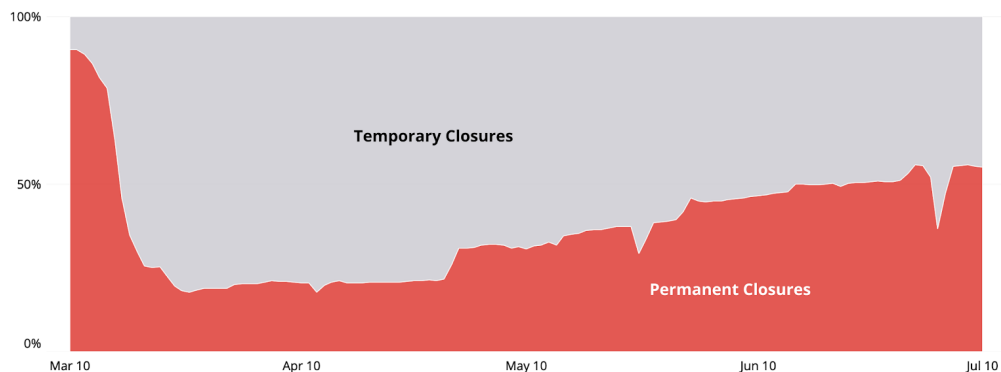
*Among U.S. businesses that were open on March 1. A business was counted as closed if it was marked as permanently or temporarily closed, changed its hours to mark itself as closed for entire days, or included the word "closed" in the COVID-19 business updates section of its Yelp page.
Closures are updated through July 10. Data may lag actual closures because of time taken to report and verify closures.

Source: Yelp
Chart: The DataFace

SOLUTION

Artificial Intelligence based video analytics solutions to control the spread of coronavirus by using **surveillance cameras** to automate COVID compliance monitoring.

The solution enables existing CCTV cameras to detect any COVID compliance violation with:

1. Real-time alerts
2. High accuracy
3. Full data privacy
4. Edge/server based processing
5. User friendly dashboard
6. Configurable rules
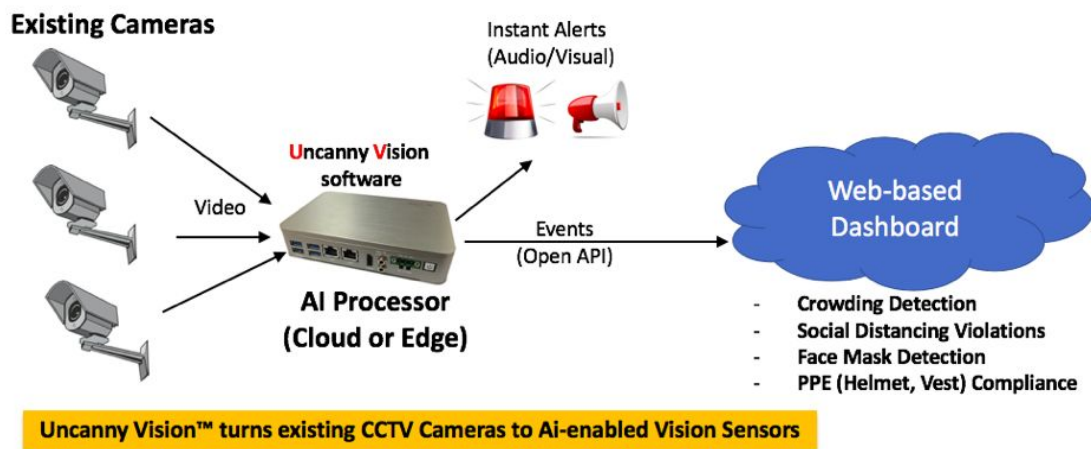
Architecture

Social Distancing

1. Monitor distance between people in a particular region of interest (ROI).
2. Triggers an alert when the actual distance is less than the recommended distance.

'No Face Mask' Detection

1. AI based face detection algorithm with >95% accuracy.
2. Detects all the faces in the camera view and looks for faces without masks.
3. Triggers an alert upon 'no face mask' detection

Crowding Detection

1. Monitor movement of the crowd.
2. High accuracy people counting at entry/exit.
3. Helps in occupancy monitoring.
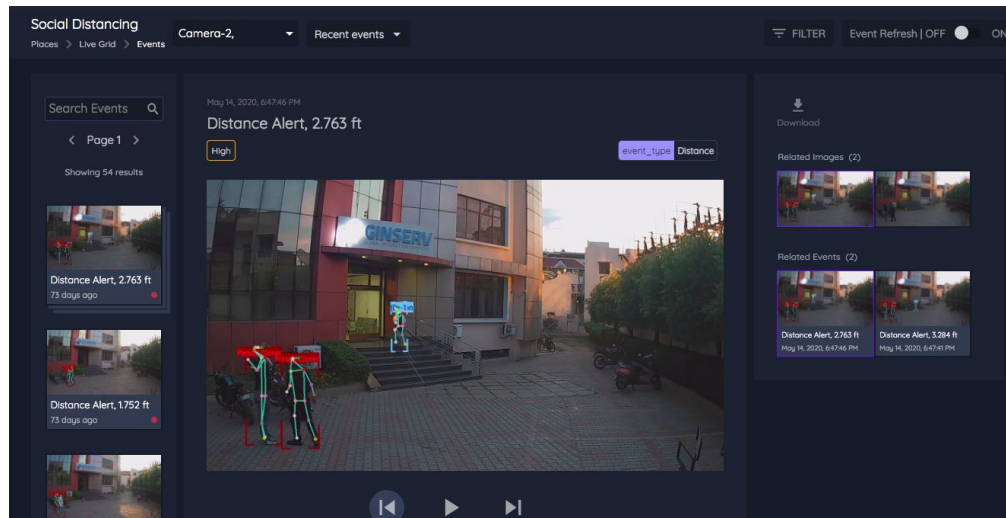4. Heat mapping to analysis.

UNCANNY VISION DASHBOARD
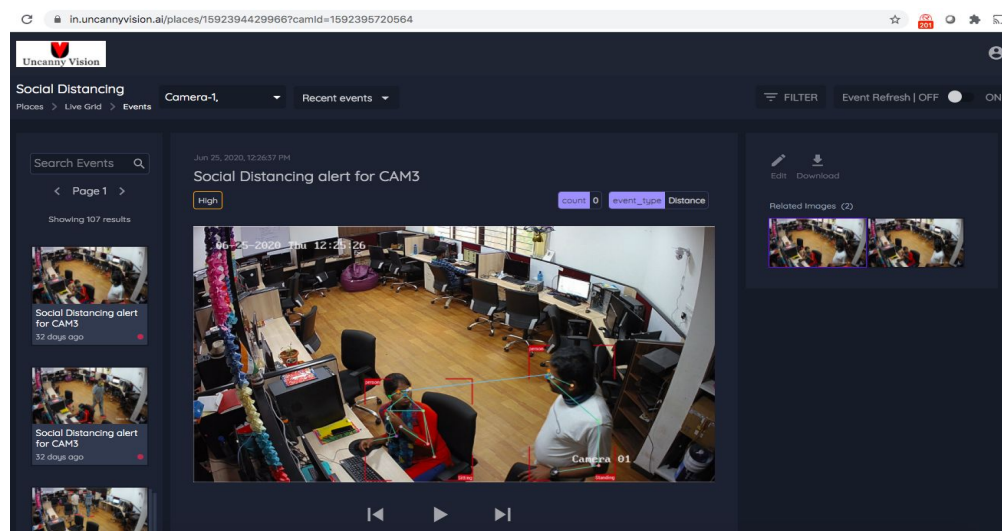
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RESULTS

With Uncanny Vision's video analytics solution deployed in airports, entertainment centers, and office spaces, administrators have found it easier than ever to monitor COVID compliances.

Uncanny Vision's faster deployment cycles, high accuracy results, and the fact that our solutions work with existing camera infrastructure, draws the attention of newer customers to our products and services.

APPLICABLE AREAS:
1. Corporate offices/Tech parks
2. Public areas like Airports, Parks, Metro stations, etc
3. Restaurants, Casinos, Entertainment centers
4. Retail outlets
5. Residential Apartments
6. Anywhere else, as per your requirement (post site assessment)

About Uncanny Vision

Uncanny Vision is an award-winning AI-based Computer Vision company delivering next generation real-time Edge-based Video Analytics solutions for Smart Cities, Smart Buildings, Smart Parking & Smart Infrastructure – specifically for People & Vehicle Monitoring using cameras. We enable cameras to "see" and "understand" their environment instantly using AI/Deep Learning algorithms. Core solutions include People, Vehicle count, classification as well as high accuracy License Plate Recognition used by many cities around the world. Using unique optimization techniques, Uncanny Vision provides this solution on low-cost Edge AI processing systems powered by Intel and on high performance Data Center or Cloud systems powered by Nvidia.
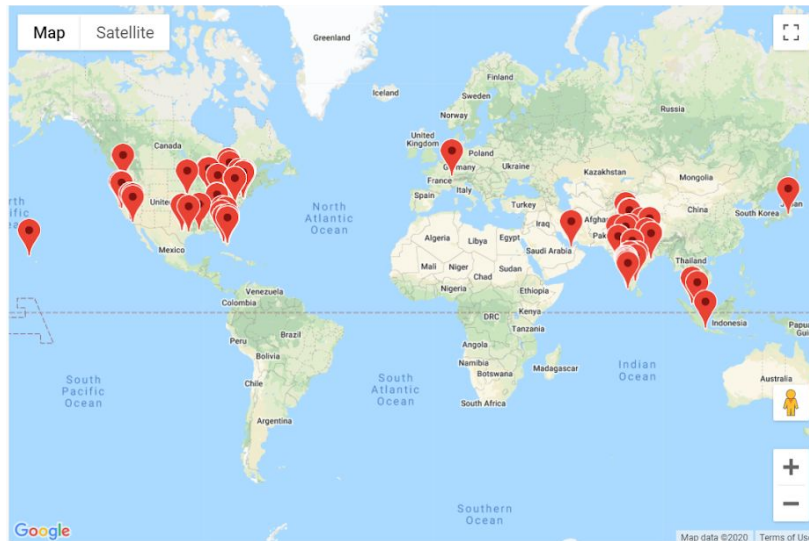
Our current deployments

Uncanny Vision®

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