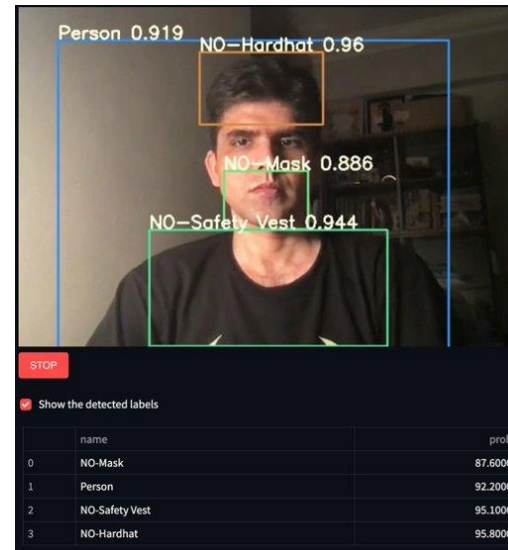

Securade.ai

— Safety, powered by AI —

Contact us at hello@securade.ai


Features

- Real Time Inference
 - Monitor worksites in real-time to quickly identify and address any safety concerns.
- Policy
 - Ensure compliance with company safety policies and regulations with our customizable policy engine.
- Reporting
 - Stay informed with detailed reports and analytics on your worksite's safety performance.



#	Dataset	Score
1	Total Frames	460
2	Candidate Frames	51
3	Key Frames	21
4	Safety Score	45.40

Upload the safety policy file (e.g. ppe_policy.json)

 Drag and drop file here
 Limit 200MB per file • JSON

Reports

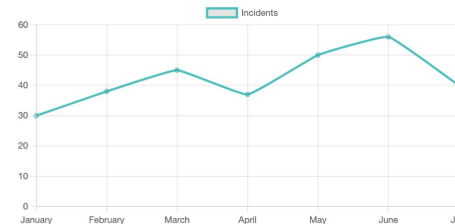
Incidents | This Week

 **45**
 11% decrease

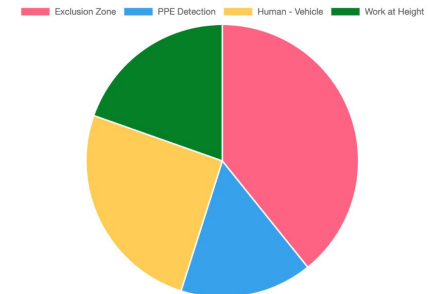
Incidents | Last Week

 **78**
 12% increase

Monthly Reported Incidents



Types of Incidents Reported



Workplace Safety Solution (20+ use cases)



- Object Detection
 - Ensure workers are properly wearing the required personal protective equipment with our AI-powered PPE detection technology.
- Proximity Estimation
 - Monitor worker proximity to prevent accidents and ensure safe distances are maintained.
- Zone Management
 - Define and enforce exclusion zones for areas that are off-limits to workers for safety reasons.

People

- PPE
 - Detect hard hats, safety vests and masks
- Line of fire
 - Alert employees when they are in line of fire situations areas
- Maximum worker counting
 - More people means the potential for more things to go wrong. Limit the maximum number of workers in an area to reduce the chance of worker injury during a catastrophic event.
- Minimum worker counting
 - Lone workers can face unique hazards, and the stakes are higher when you are by yourself. Mitigate the possibility of a recordable injury by ensuring adequate number of staff in a hazardous or controlled area.
- Static delimitation area
 - Engineering controls can be high cost and take a long time to implement. Solve this using AI to create and apply go and no-go zones.

Machinery

- Machine area control
 - Perimeter controls help generate distance between workers and hazardous machinery.
- Machine-worker restricted area
 - Industrial machinery and robots demand exclusion zones to protect workers. Improve workplace safety culture by monitoring controlled areas with AI.
- Machine-operator checks
 - Ensure that operator is present while the machine is running, get alerts when they leave the machine unattended.

Vehicles

- Vehicle operation zone
 - Predictable vehicular behavior isn't just for protecting the driver; it's also for protecting pedestrians. Monitor vehicle path deviations to help prevent catastrophic events
- Vehicle restricted area
 - Designed not just to maintain vehicles on the road, but also to keep vehicles out of hazardous process areas where they could become a source of ignition and other dangers.
- Dynamic delimitation area
 - Heavy equipment operators face situational and systemic risks. Eliminate these risks and more by checking if people get close to vehicles using proximity detection.

Behaviours

- Pedestrian way violation
 - Crossing manufacturing area boundaries and vehicle travel paths in unapproved locations sets the individual up for serious injury.
- Grouping
 - An unusual increase in workers located in a specific area may indicate an emergency. Implement the grouping feature on intenseye platform to trigger alerts when specified counts are exceeded.
- No activity alert
 - Get notified when there is no activity at work site for a duration of time.

Hazards

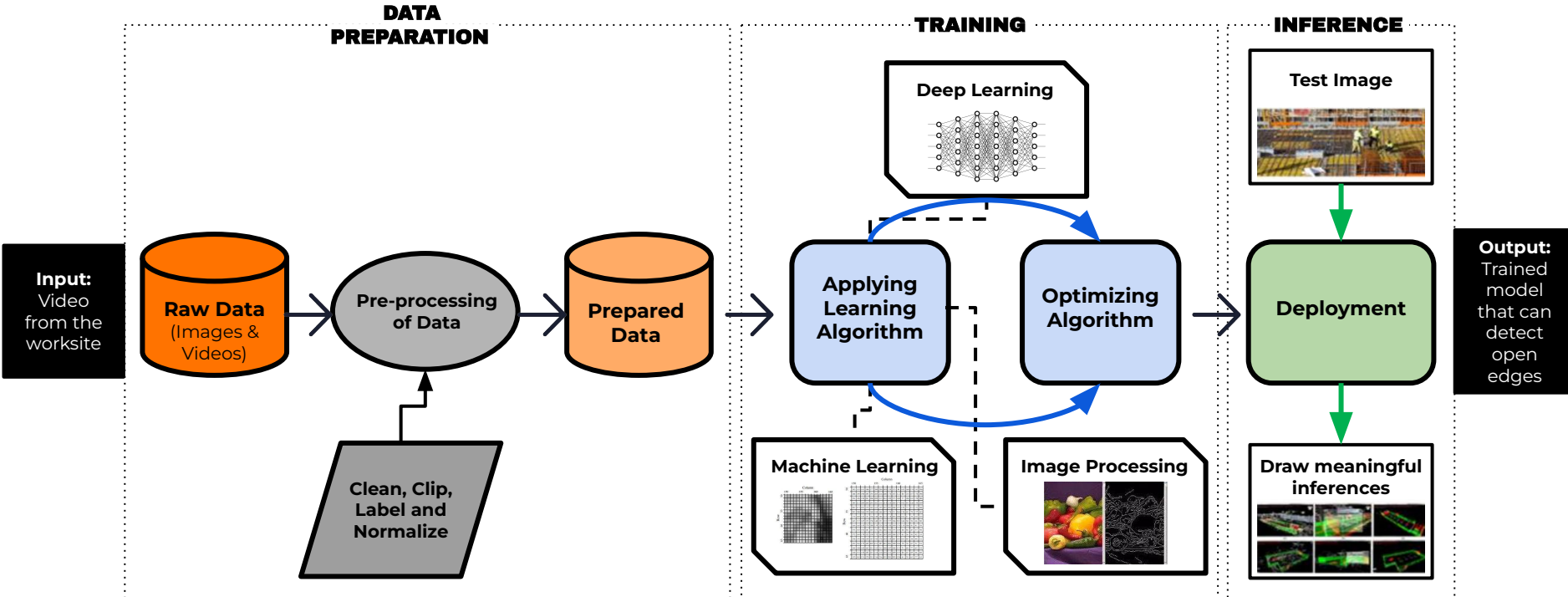
- Open edges/open holes/ safety barriers
 - People getting close to open edges and barricades are at the risk of falling from height.
- Under suspended load
 - People standing or walking under a heavy load lifted by cranes pose risk to themselves if they are in the fall zone.
- Restricted height
 - Working at heights requires precautions to prevent falls and serious injury. Trigger automated activations when workers ascend into elevated areas without a proper PPE.

Additional Use Cases

- Clean pedestrian ways
 - Slips, Trips, and Falls are commonly reported injuries that can have major consequences. Prevent these costly incidents from getting in the way of your workplace efficiency.
- Clean vehicle roads
 - Roadway hazards not only present risk for damage to property, but can also induce injuries from motor vehicle accidents. Save money and improve safety with automated detection.
- Fall detection
 - Workers experiencing an emergency are often found much after the initial triggering event. Let Securade be there when nobody else is to detect and report workers needing assistance.
- Smoke and Fire detection
- Drowsy/Alert detection

Build Your Own Use Case

Use case: Developing an object detection model for workers working at height near open edges.

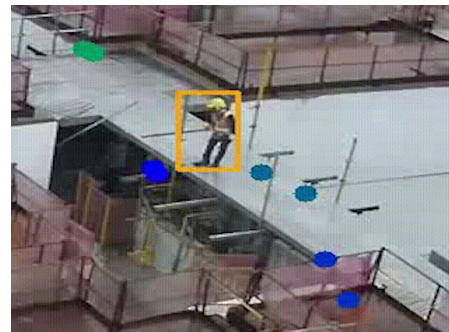


With Generative AI



Input: Video from the worksite

CAMERA/VIDEO



Output: Trained model that can detect open edges

Key frame extraction



Visual prompting



Zero shot object detection



Generate initial training data



Generative AI



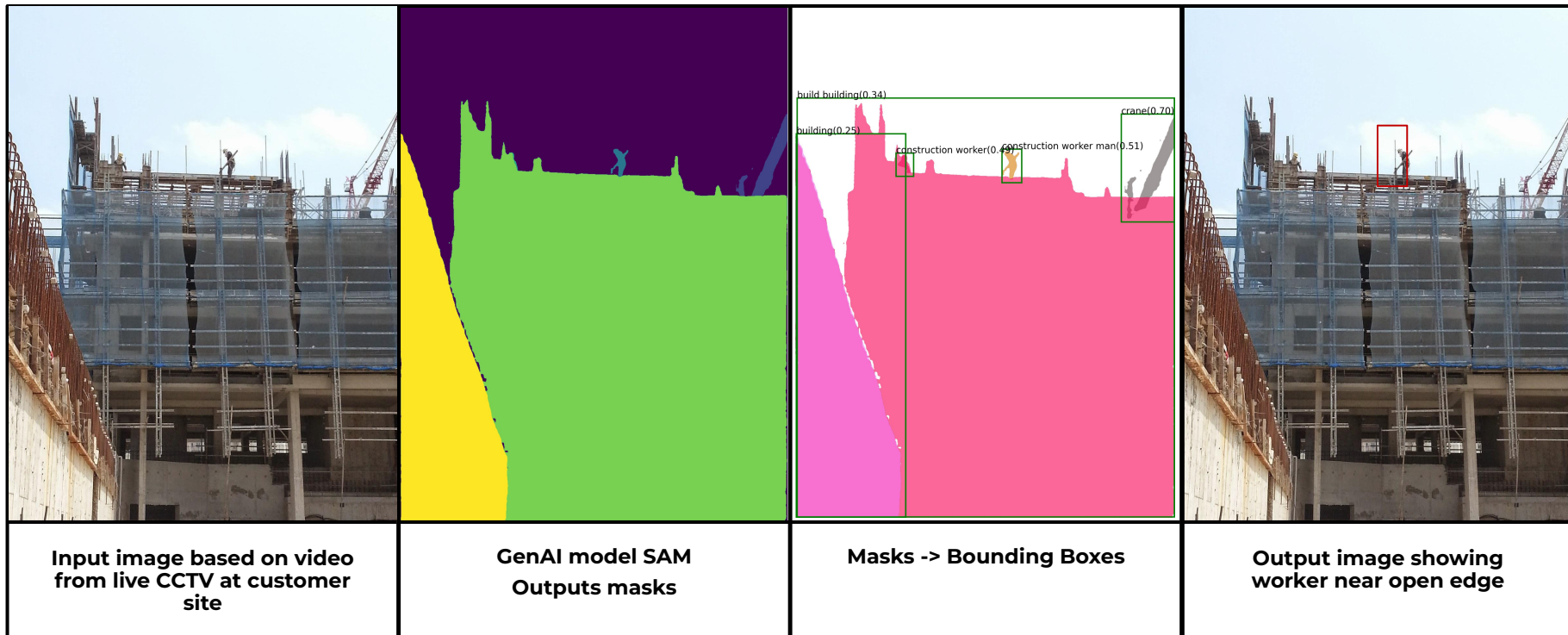
Fine-tune a new model



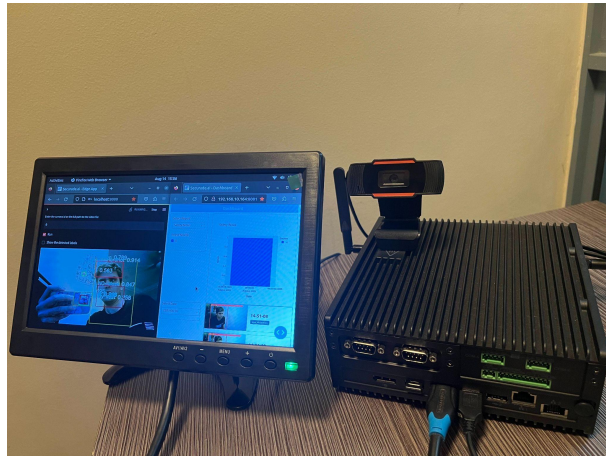
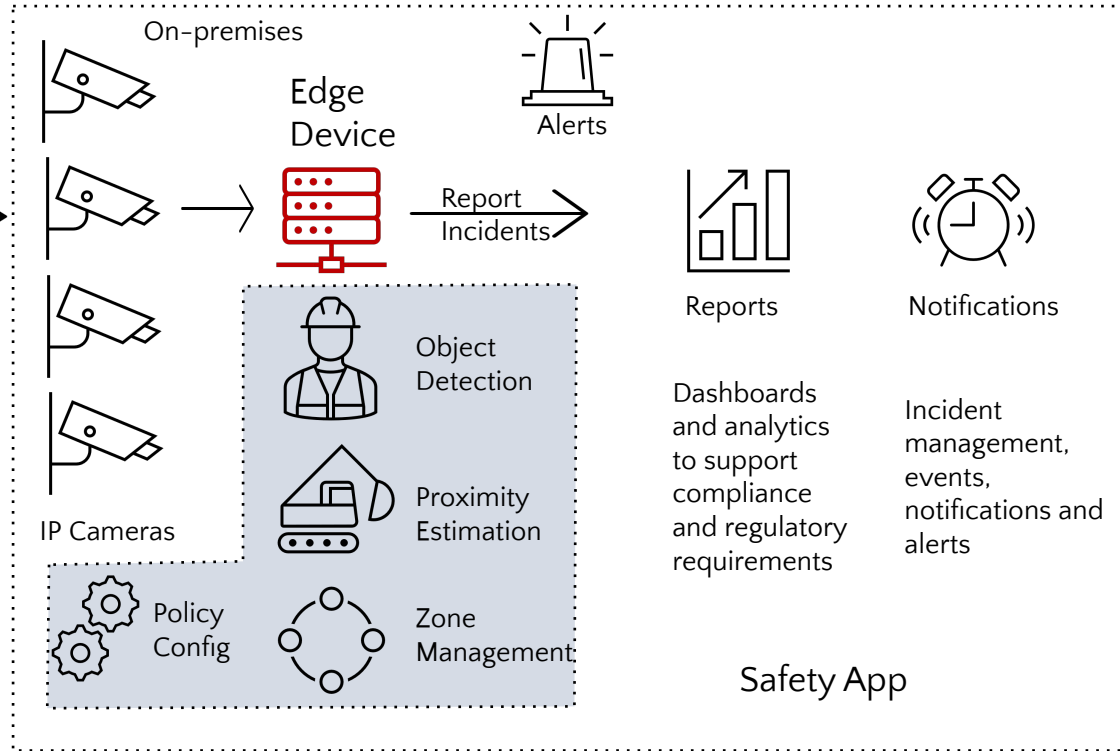
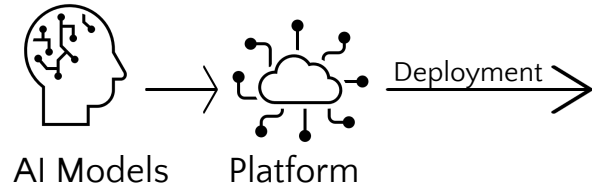
Augmentation



Prompt-based Object Detection



Securade.ai HUB



Securade.ai Tower



A self contained kit for mobile deployments that includes a HUB, 4G LTE internet, a PTZ camera, a battery and an industrial socket point for charging, all packaged in an IP66 weatherproof enclosure.

Securade.ai

Partners



Awards

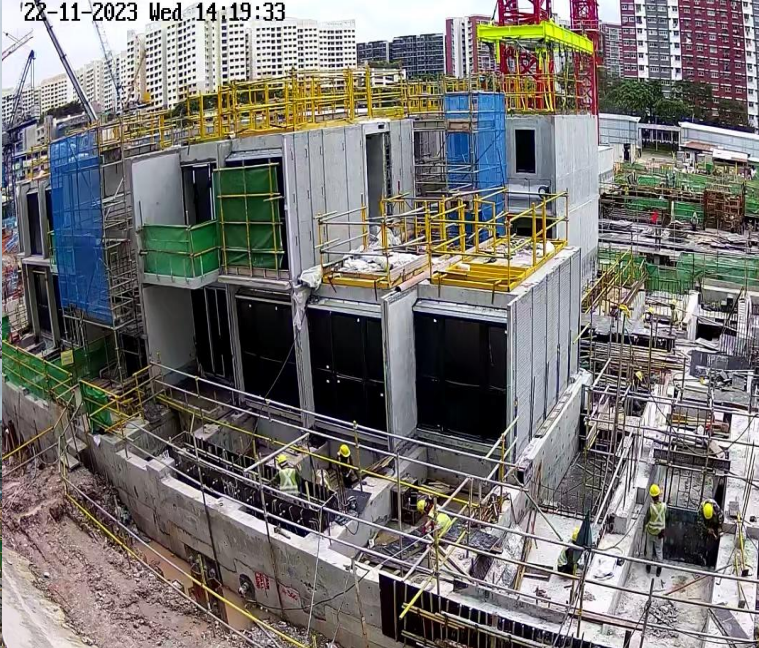


Live Deployments





22-11-2023 Wed 14:19:33



30-01-2024 Tue 07:47:25



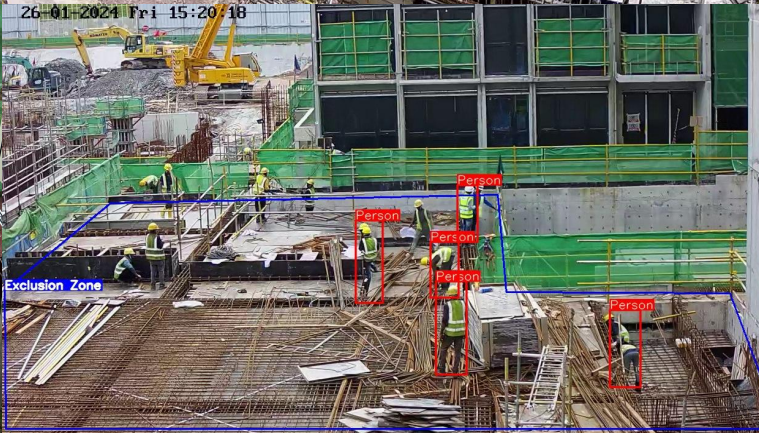
debris 0.28

debris 0.32

debris 0.38

debris 0.26

26-01-2024 Fri 15:20:18



Exclusion Zone



