

Securade.ai

Safety, powered by AI

Contact us at hello@securade.ai



Safeguard Your Worksites with Securade.ai

Protect your workers and projects with AI technology that predicts and prevents accidents.



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.



| Show the detected labels | |
|--------------------------|---------|
| name | prob |
| 0 NO-Mask | 87.6000 |
| 1 Person | 92.2000 |
| 2 NO-Safety Vest | 95.1000 |
| 3 NO-Hardhat | 95.8000 |

| # | 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

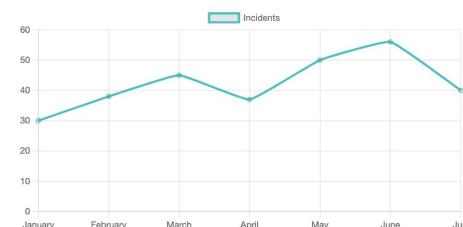
Incidents | This Week

45
11% decrease

Incidents | Last Week

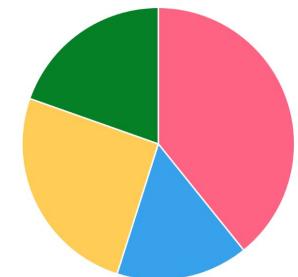
78
12% increase

Monthly Reported Incidents



Types of Incidents Reported

Exclusion Zone PPE Detection Human - Vehicle Work at Height



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

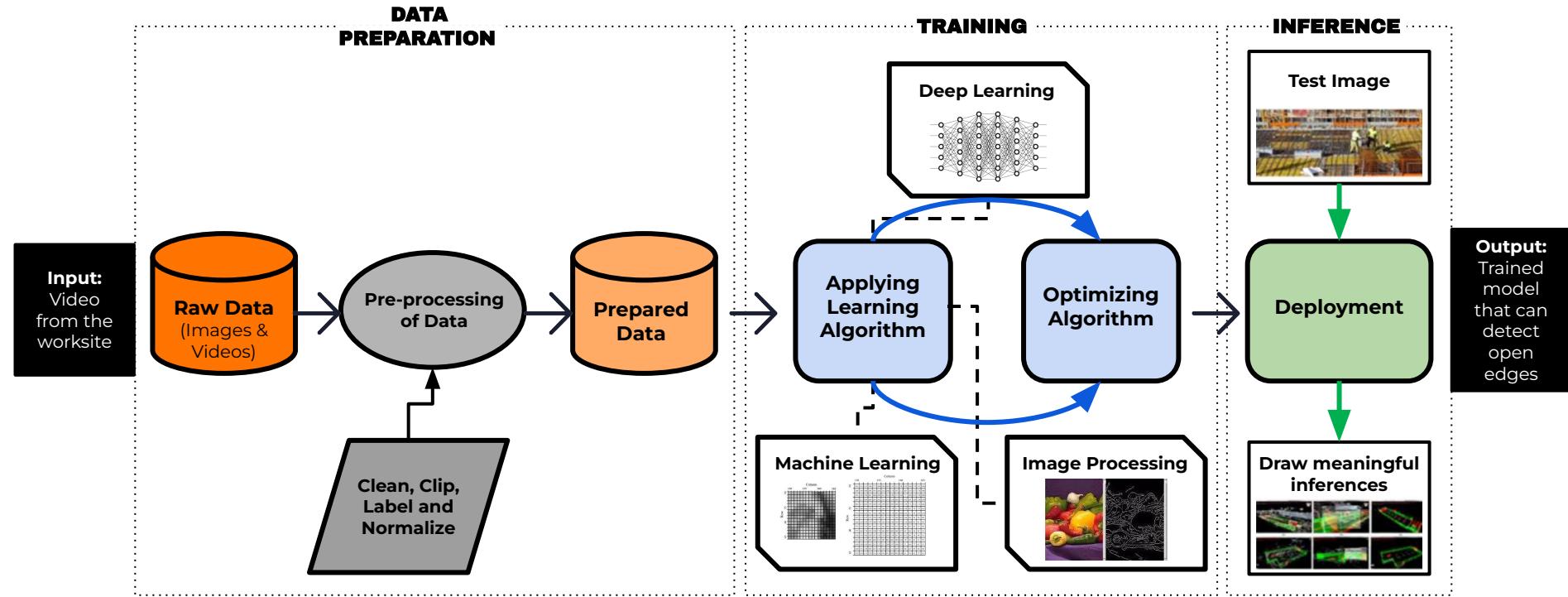
- Open edges/open holes/ safety barriers
 - People getting close to open edges and barricades are at the risk of falling from height.
- Under suspended load
 - People standing or walking under a heavy load lifted by cranes pose risk to themselves if they are in the fall zone.
- Restricted height
 - Working 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

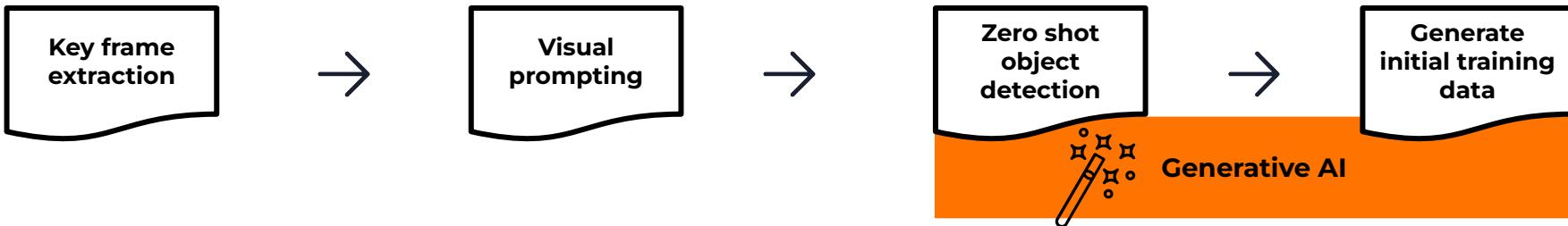
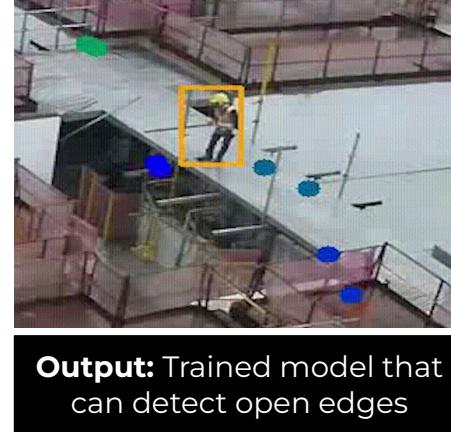
Use case: Developing an object detection model for workers working at height near open edges.



With Generative AI

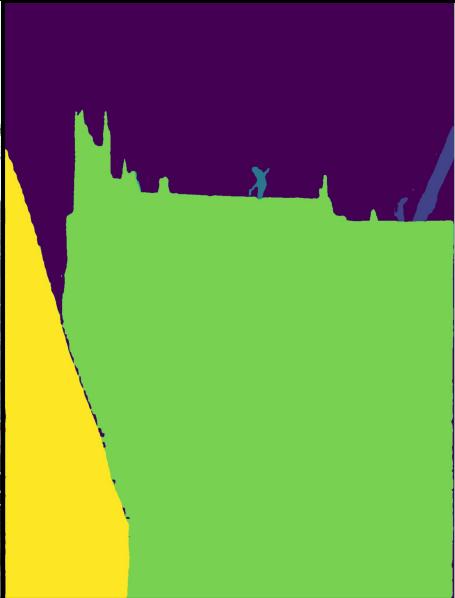
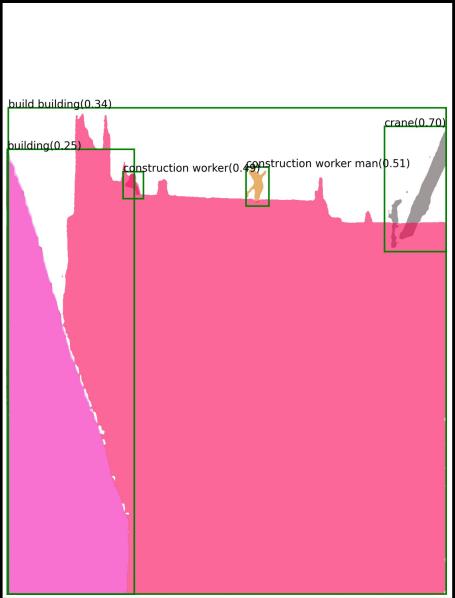


CAMERA/VIDEO



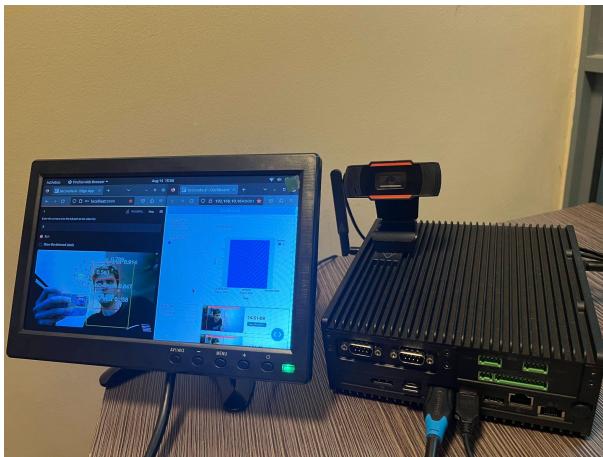
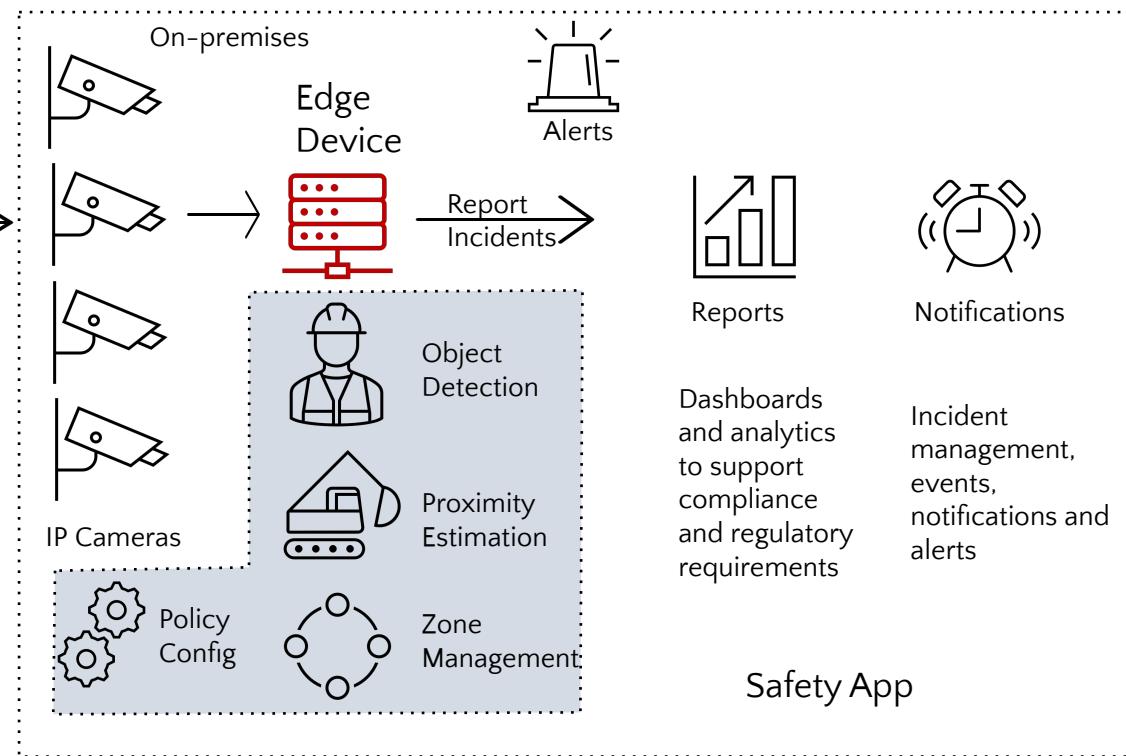
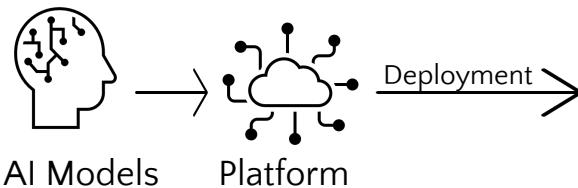
Prompt-based Object Detection



| | | | |
|--|---|--|---|
|  |  |  |  |
| Input image based on video from live CCTV at customer site | GenAI model SAM Outputs masks | Masks -> Bounding Boxes | Output image showing worker near open edge |



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



Registered in July 2023 as
Okyasoft Pte Ltd (202327709K)
in Singapore.

Awards



Contact us at hello@securade.ai

Live Deployments





