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# Securade.ai

— Safety, powered by AI —

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Contact us at [hello@securade.ai](mailto:hello@securade.ai)

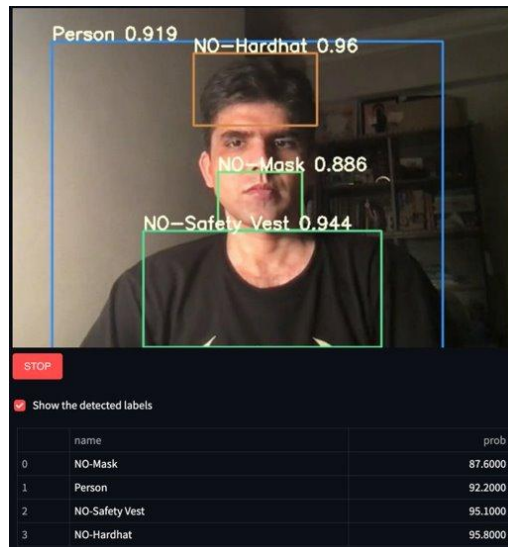
# Safeguard Your Worksites with Securade.ai

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.



## Our Findings

#	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

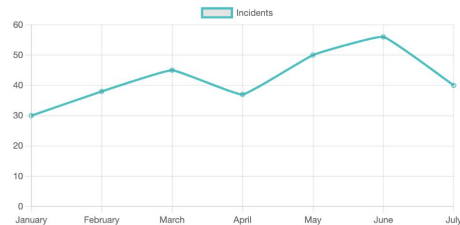
Incidents | This Week

↓ 45  
11% decrease

Incidents | Last Week

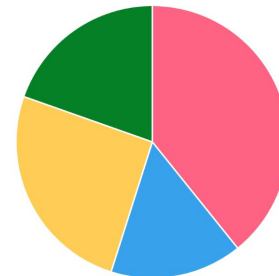
↑ 78  
12% increase

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.

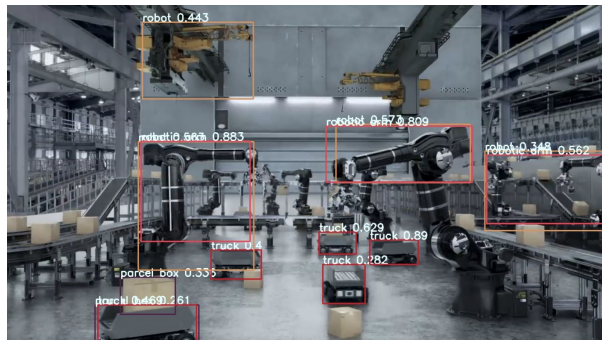
# Additional Use Cases

- 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 with Generative AI



Camera/Video



Key frame extraction

Visual prompting

Zero shot object detection

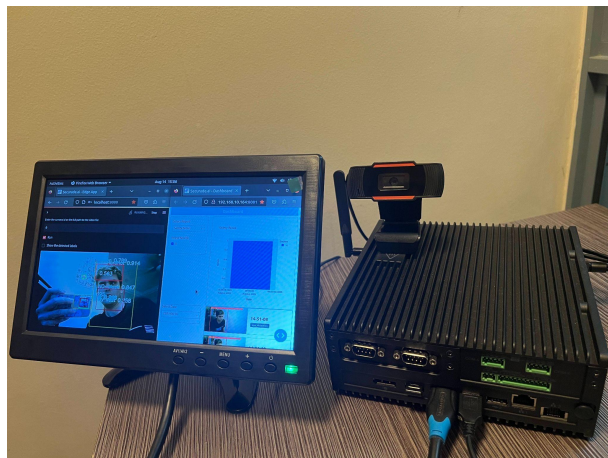
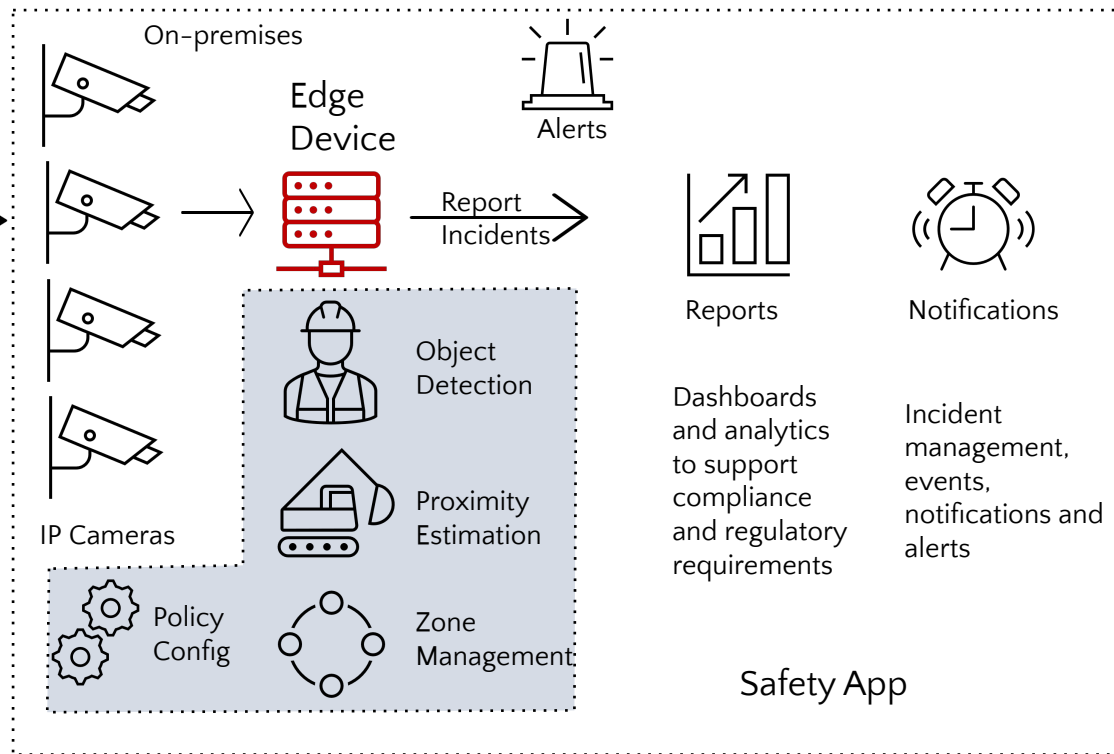
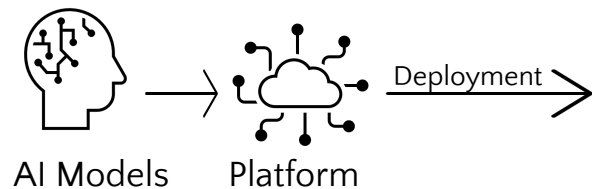
Generate initial training data

Generative AI

Fine-tune a new model

Augmentation

# Securade.ai HUB



# Securade.ai Tower



A self contained kit for mobile deployments that includes a HUB, 4G internet, 2 cameras, a screen, a power back up with UPS and an industrial socket point for charging, all packaged in an IP66 weatherproof enclosure.



# Live Deployments







FPS:21.01

03-28-2023 Tue 11:36:45



Camera 01