



**Introducing:**

# **CCTV VISION COUNT AI**

## **Technical Documentation**

AI-powered object detection and counting platform for warehouses and industrial environments using real-time CCTV and Vision AI.

Developed By: [thirdeyedata.ai](https://thirdeyedata.ai)



# Overview

## About the Solution

CCTV VisionCount AI is a comprehensive computer vision platform designed for real-time object detection, counting, and tracking in industrial environments. Powered by YOLOv8, the system enables accurate monitoring across conveyor belts, warehouse stock, and CCTV surveillance systems.

With support for multiple analysis modes, live video streaming, and analytics dashboards, the platform helps organizations automate inventory tracking, reduce manual effort, and improve operational efficiency.



# Business Problem / Challenges

Industrial and warehouse environments face key challenges in tracking inventory and operations:

Manual counting is labor-intensive, time-consuming, and prone to errors.

Lack of real-time visibility in warehouse operations and stock movement.

Difficulty in tracking objects across multiple CCTV cameras.

Inefficiency in verifying loading/unloading processes and audits.



# Solution Overview

CCTV VisionCount AI uses advanced computer vision models to automate object detection and counting across multiple environments.

By analyzing video streams, images, and live CCTV feeds, the system provides:

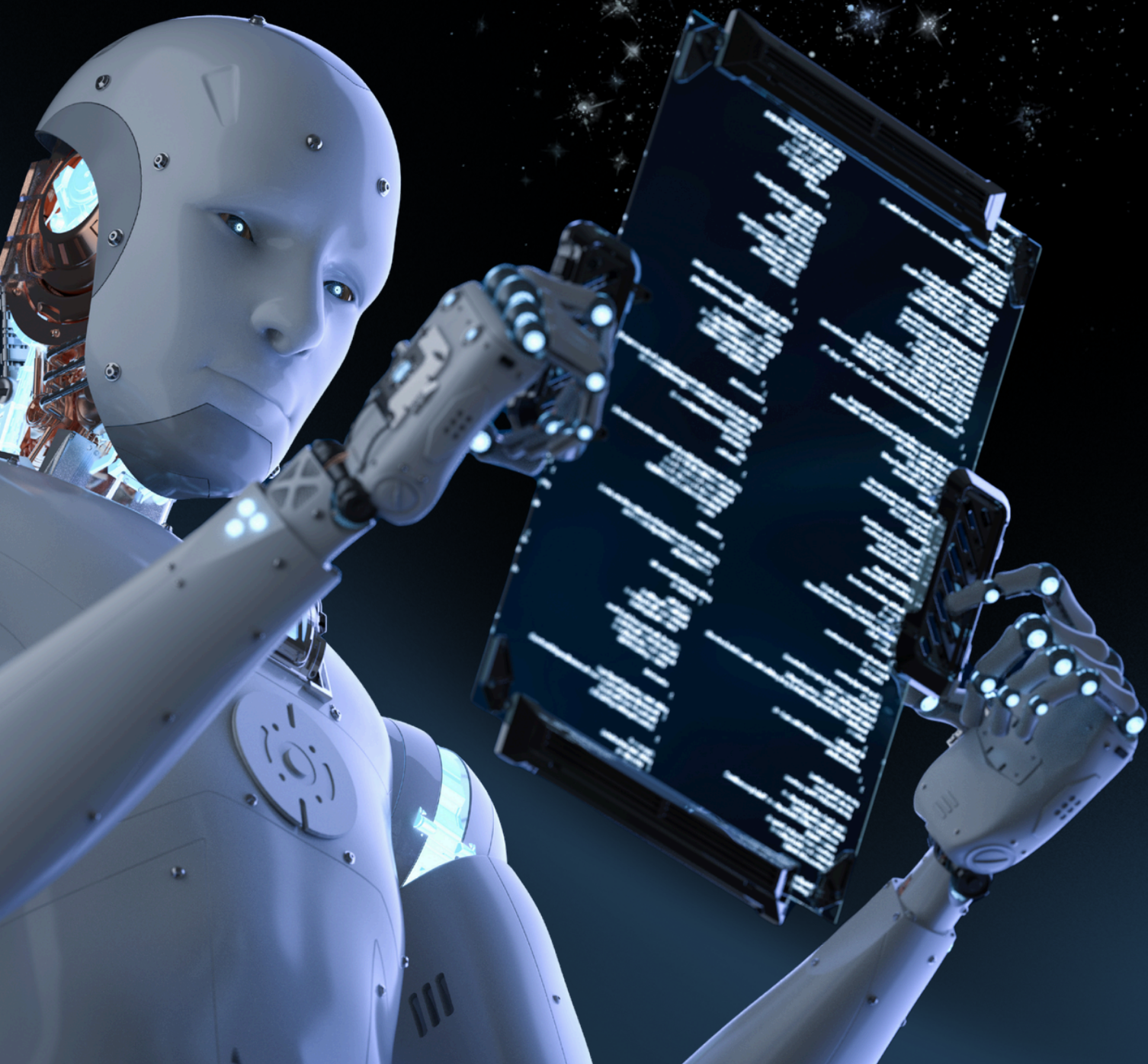
Real-time object detection and counting using YOLOv8.

Multi-camera monitoring with aggregated and per-camera counts.

Difficulty in tracking objects across multiple CCTV cameras.

Inefficiency in verifying loading/unloading processes and audits.

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# Key Capabilities

YOLOv8-based  
object detection with  
bounding boxes.

Monitor multiple  
CCTV feeds  
simultaneously.

ROI-based counting  
and entry/exit  
tracking.

Historical trends,  
reports, and  
efficiency metrics.

Supports  
image/video input  
for offline analysis.

Download  
annotated videos  
and CSV/Excel  
reports.



# Value Proposition

01

Accuracy : High precision object counting in real-time.

02

Time Savings : Eliminates manual stock counting processes.

03

Real-Time Monitoring : Continuous 24/7 surveillance and tracking.

04

Operational Efficiency : Improves inventory visibility and audit accuracy.

05

Scalable Solution : Supports multiple cameras and large environments.

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# Primary Tools & Technologies

01

## AI Models

YOLOv8 for real-time object detection, tracking, and counting in industrial environments.

02

## Backend APIs

Python APIs with WebSockets and MJPEG streaming for real-time updates and video processing.

03

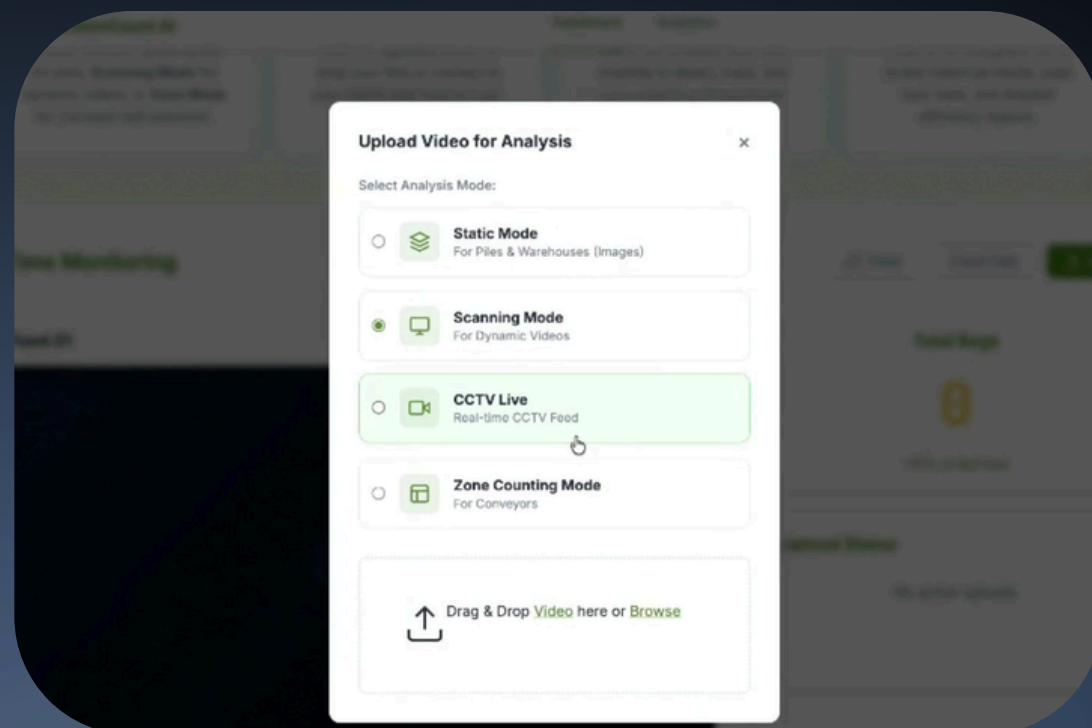
## Dashboard

Dashboard for live monitoring, analytics, and reporting.

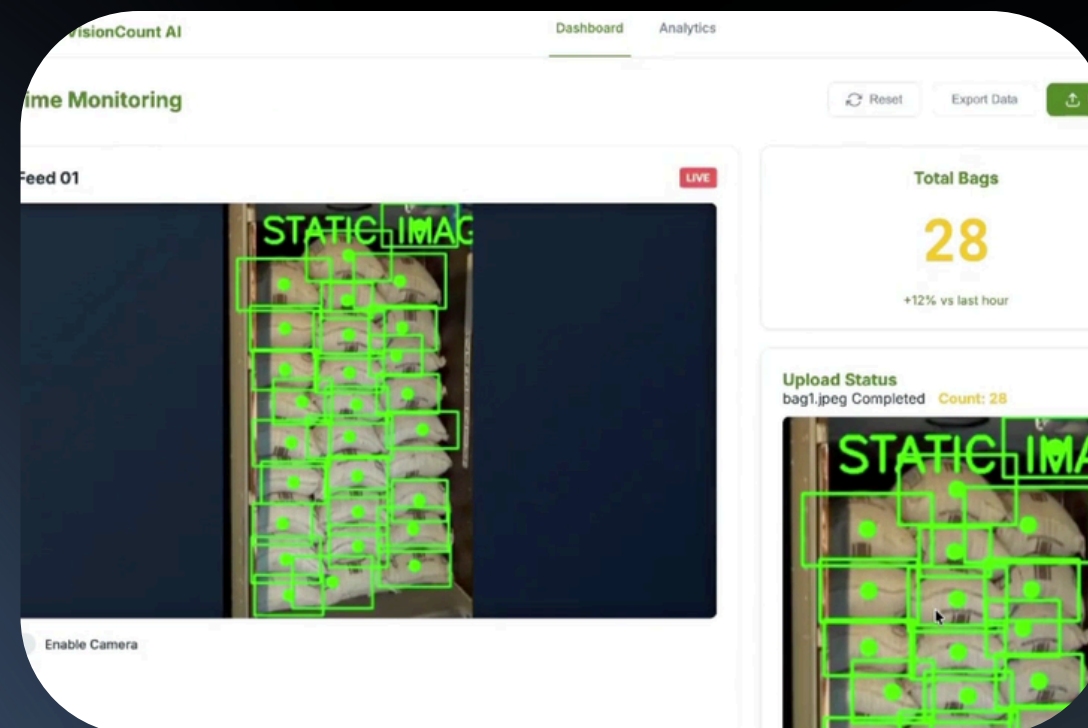


# Solution Glimpses

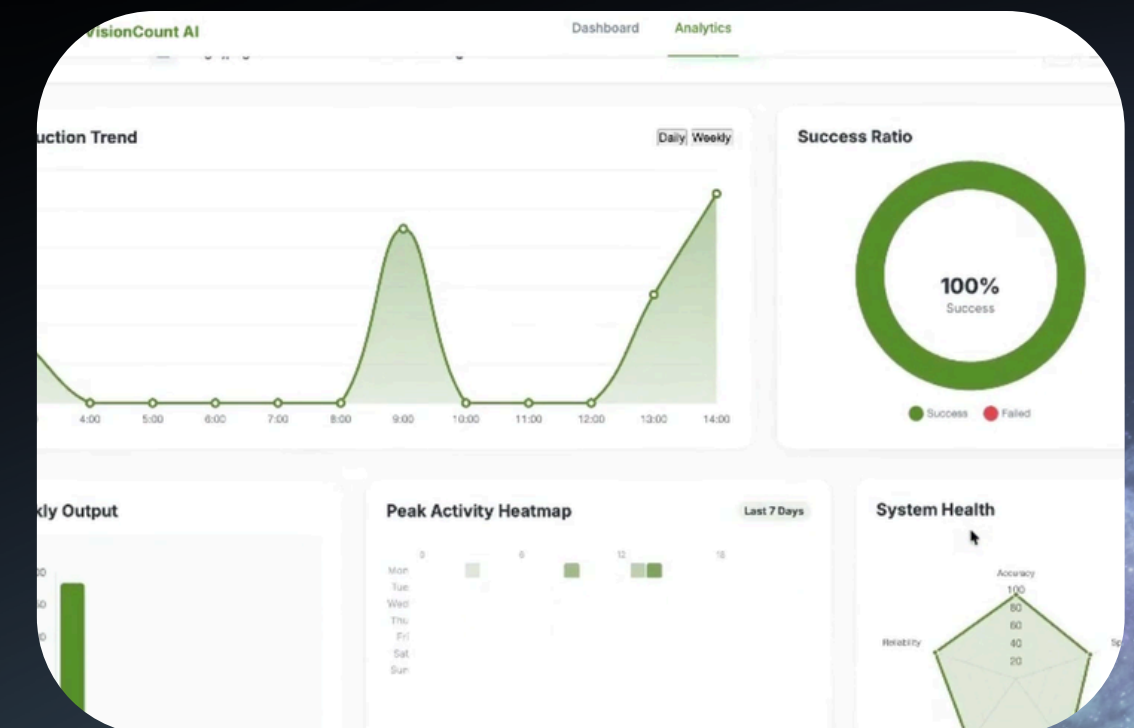
## Multi-Source Upload



## Real-time Counting



## Audit Log & Analytics



Watch the full video on [Vimeo.com](https://vimeo.com) or scan here to watch:



# Request a Demo

If you find this solution relevant to your use case, please feel free to try this prototype or request a custom demo.

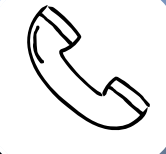


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**Custom Demo**

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