



# COMPANY PORTFOLIO

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# ABOUT COMPANY

Welcome to **Inavan**, where technology meets innovation. We are a dynamic IT consultancy firm with over two decades of experience, specializing in cutting-edge solutions such as Artificial Intelligence, Software & Web Application Development, Web Hosting, Support Services, and more.

Looking for a trusted development partner?

**We are there for you.**





# VISION

**Inavan** envisions a future where technology seamlessly integrate with human endeavours, enriching lives and fostering unparalleled innovation.

Our vision is to be a catalyst for positive change, driving advancements in the areas of Artificial Intelligence solutions, Software Development, and Web applications.

We aspire to empower businesses globally, there by creating a transformative and sustainable impact.





# MISSION

**Inavan** is on a mission to revolutionize the technology industry through a steadfast commitment to quality, innovation, and client success. Our mission is to provide bespoke solutions in Artificial Intelligence, Software & Web Application Development, and Hosting Services.





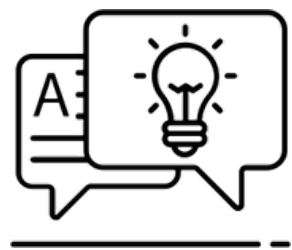
# OUR SERVICES

At Inavan, we are your strategic technology partner, offering a diverse range of services tailored to meet your evolving needs. Our commitment to excellence and innovation extends across multiple domains



- **Artificial Intelligence Solutions**

Machine Learning, Deep Learning, Computer Vision, Image Processing.



- **Consultancy Services**

Project Management, Design & Execution, Deployment Control, Security Planning



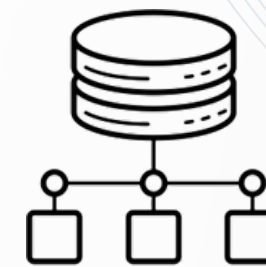
- **Server Administration**

Competent handling of Windows, Linux (CentOS/Debian/Ubuntu), Apache, Exim, Postfix



- **Application Development**

Expertise in Python, PHP, Classic ASP, ASP.net, VB, C#, Java.



- **Database Administration**

Proficient management of Oracle, MSSQL, MySQL, Sybase, MariaDB, PostgreSQL, SQLite



- **Designing Services**

Web Design, Graphic Design, Graphical User Interfaces, UI/UX



# PROJECT PORTFOLIO

At **Inavan**, our portfolio is a testament to our prowess in crafting innovative solutions that transcend industry standards.

From ground-breaking Artificial Intelligence implementations to meticulous Software and Web Application Development, each project reflects our commitment to excellence.

Explore our diverse portfolio, where technology meets innovation, and witness the transformative impact we bring to businesses through tailored solutions and cutting-edge expertise.



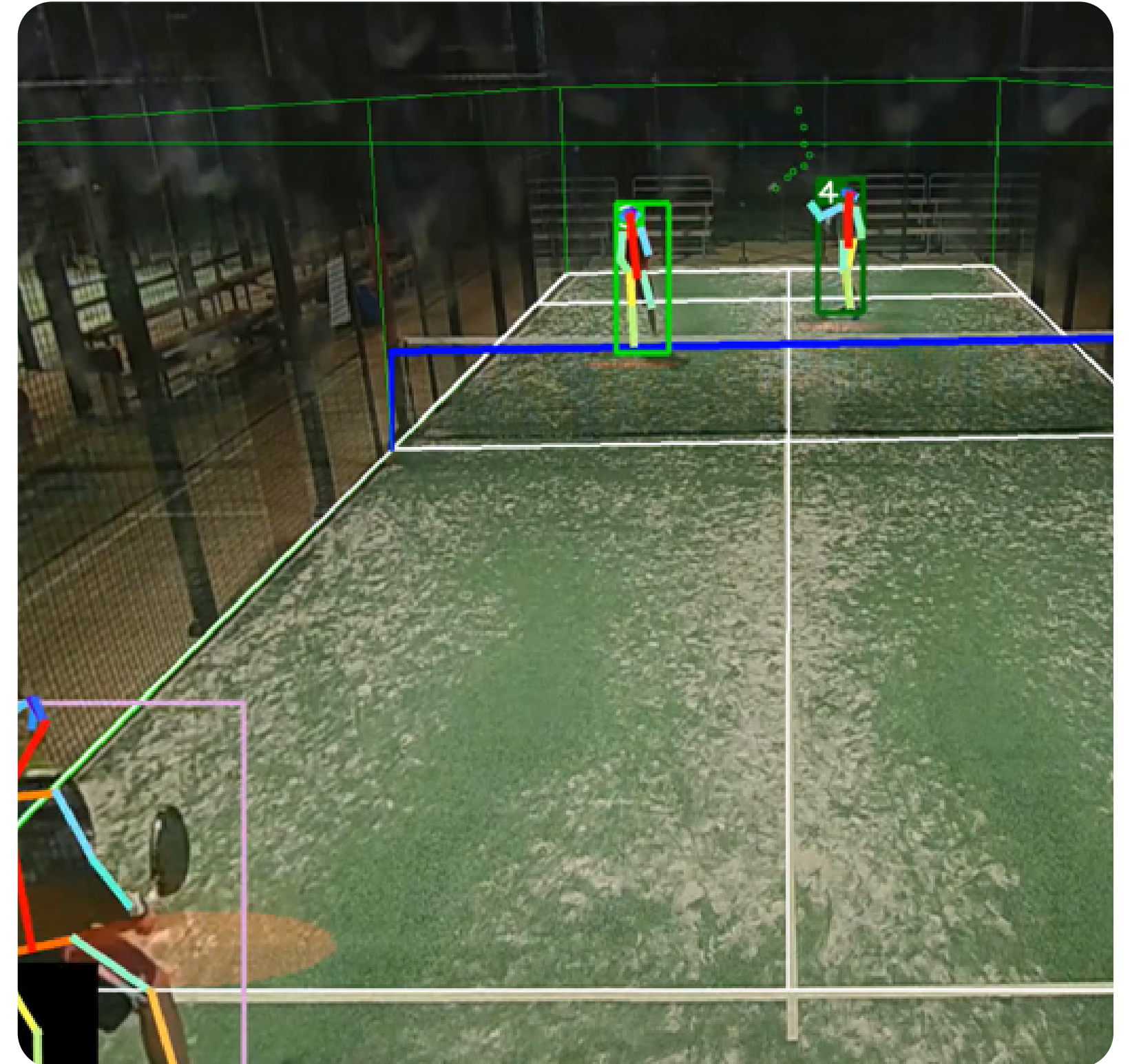


# PROJECT VIRTUAL TRAINER

Artificial Intelligence with deep neural networks to analyse gesture, pose and actions of players and guide them on productive scoring in games

## Features:

- Court detection & extraction
- Shake removal & video compression
- Ball detection & tracking
- Ball bounce detection
- Player detection, tracking & re-identification
- Pose & action recognition
- Scoring analysis & prediction



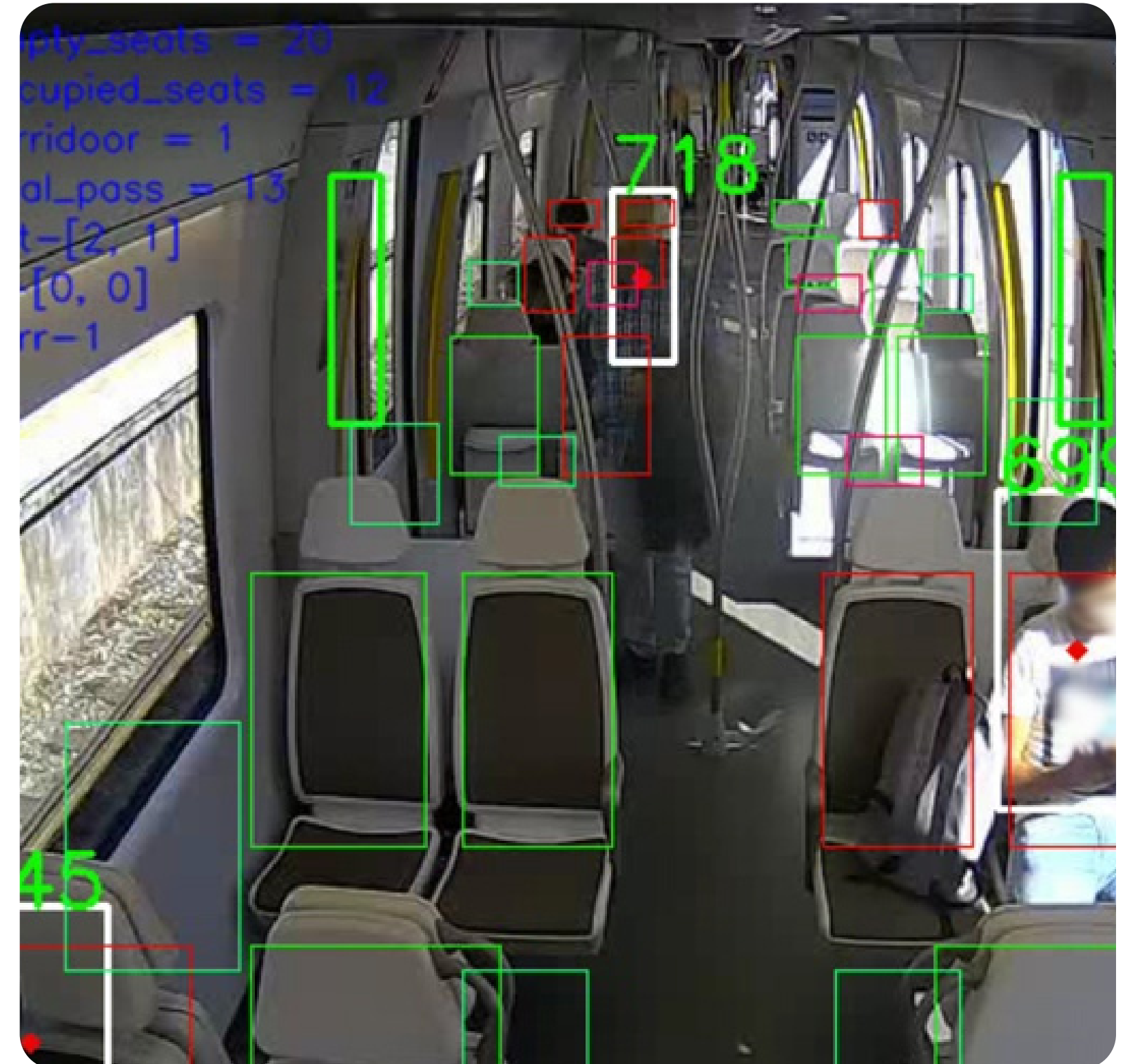


# PROJECT **PASSENGER DETECTION, COUNT AND TRACKING**

Proof of concept developed using artificial intelligence with deep learning and the objective was to analyse surveillance camera footages from train compartment and to count the number of passengers and empty seats. Also to track passengers & count the number of passengers boarding/alighting the train at each station.

## **Features:**

- Count & track passengers inside the coach
- Count & track empty and occupied seats
- Track passengers enter/exit the coach
- Re-identify passengers moving within the coach



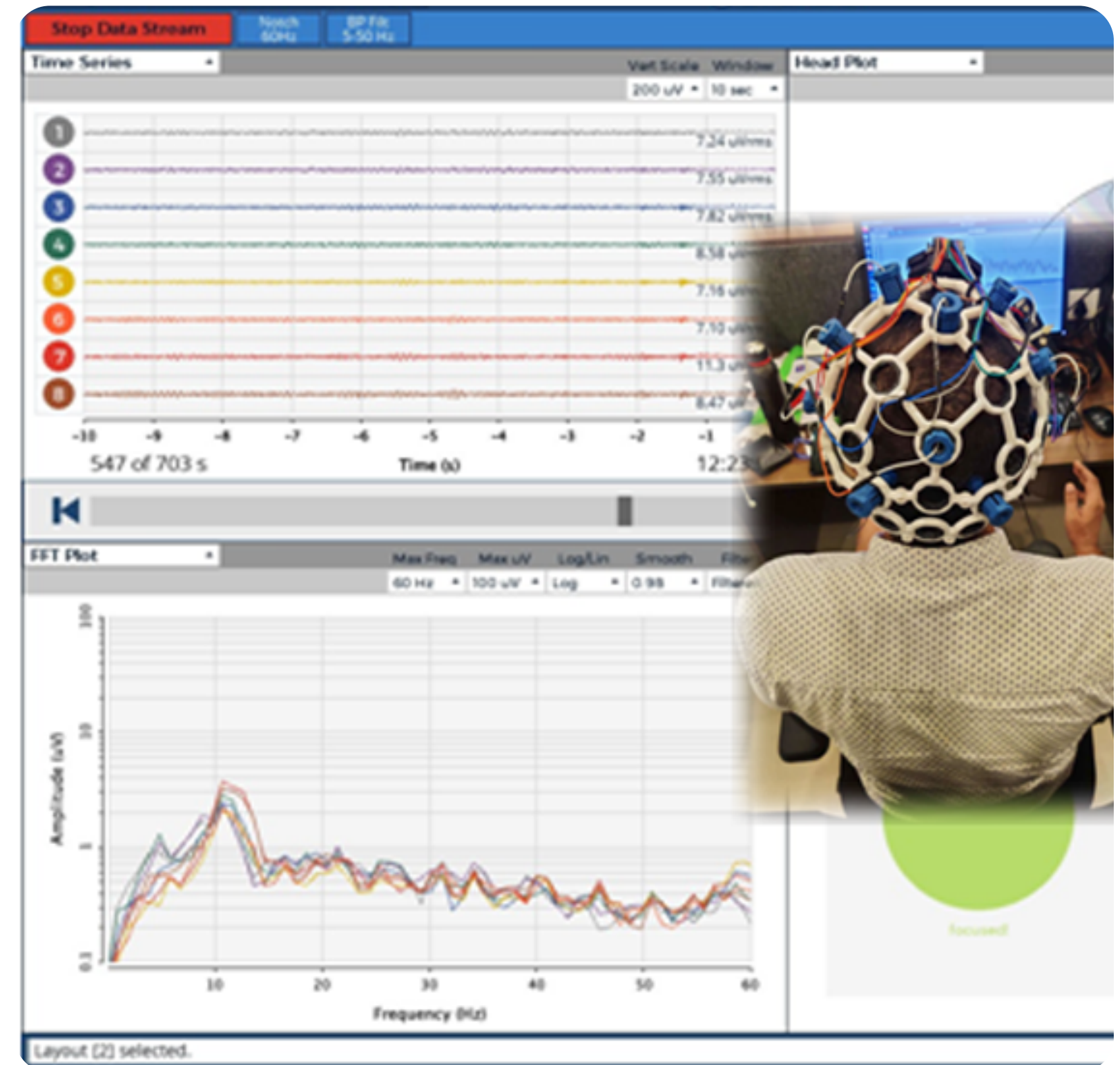


# PROJECT DEFECT DETECTION WITH BRAIN- COMPUTER INTERFACE

This was done as a research & development project, in which brain signals (EEG) were captured from motor cortex with the help of electrodes. Objective was to detect defects and label them automatically with the brain signals.

## Features:

- Signal collection from motor cortex with electrodes
- Develop deep learning model using these signals
- Identify and classify defects on moving objects using the trained model and accurately detect the defect location without any manual actions





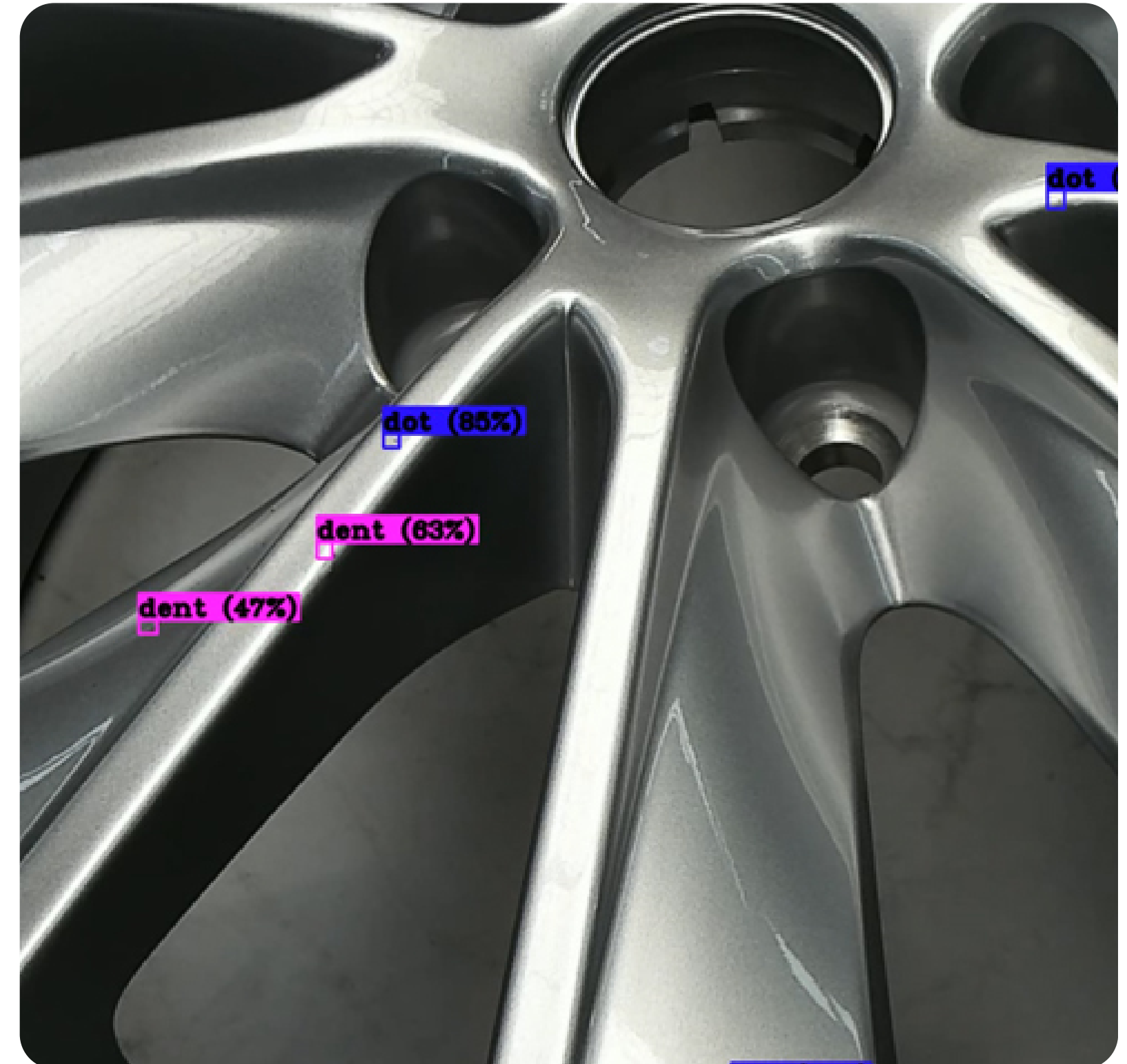
PROJECT:

# INDUSTRIAL DEFECT DETECTION AND CLASSIFICATION

Using deep learning with computer vision and image processing, identify the defects detected on products directly in the production line and classify them according to the defects found.

## Features:

- Detect defects directly in production line
- Classify detected defects with multiple classes
- Alert the PLC system when defects found
- Retrain system with new defects detected
- Generate reports through APIs with the defects detected





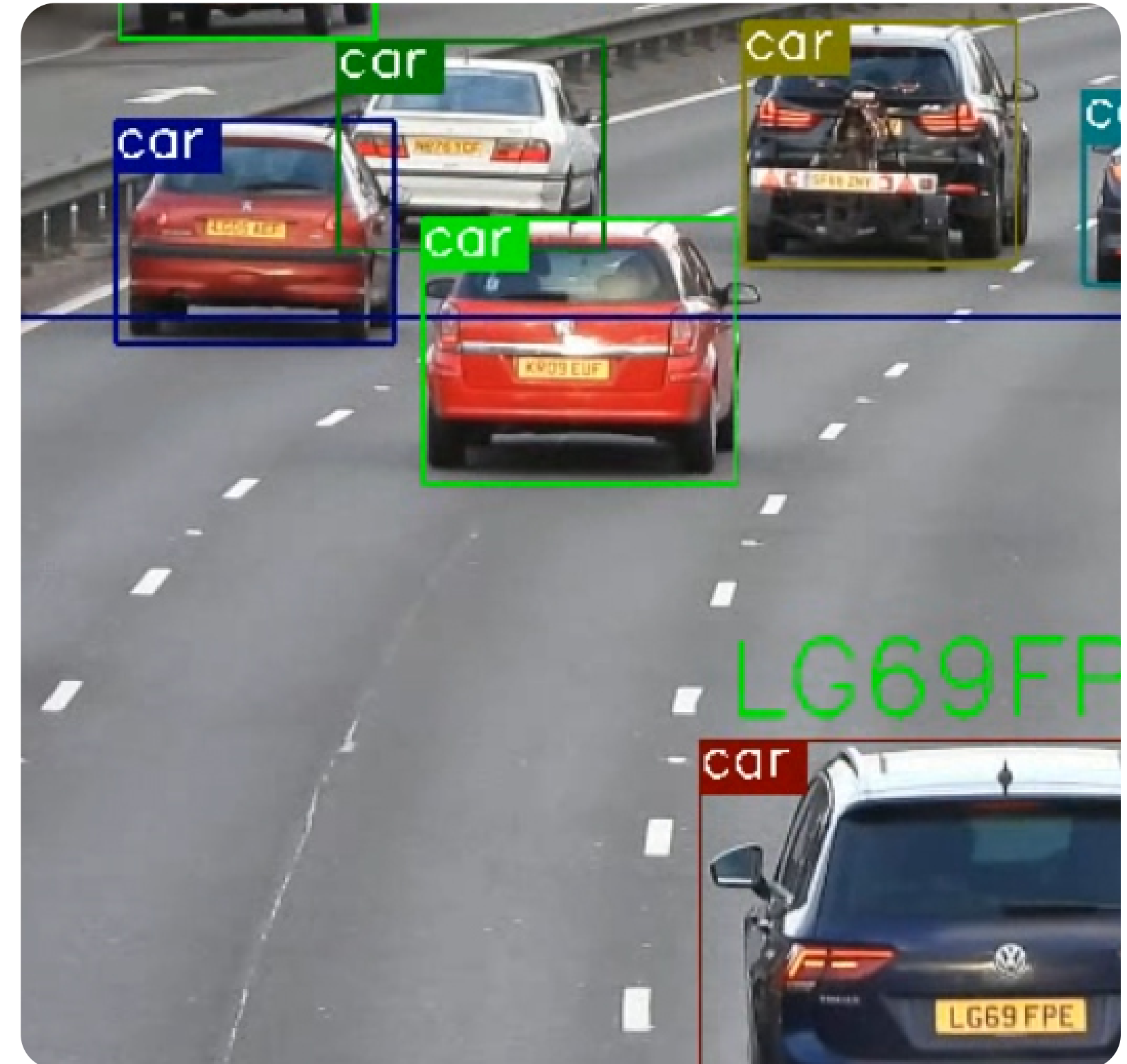
PROJECT:

# VEHICLE DETECTION, CLASSIFICATION & LICENSE PLATE RECOGNITION

Realtime detection, classification and counting of vehicles passing through the freeway. License plate detection and recognition with deep learning and OCR libraries.

## Features:

- Identify vehicles and classify them
- Count each type of vehicles crossing the reference line
- Detect license plate on vehicles
- Image processing with OCR on license plates
- Generate reports on the data collected and send through APIs





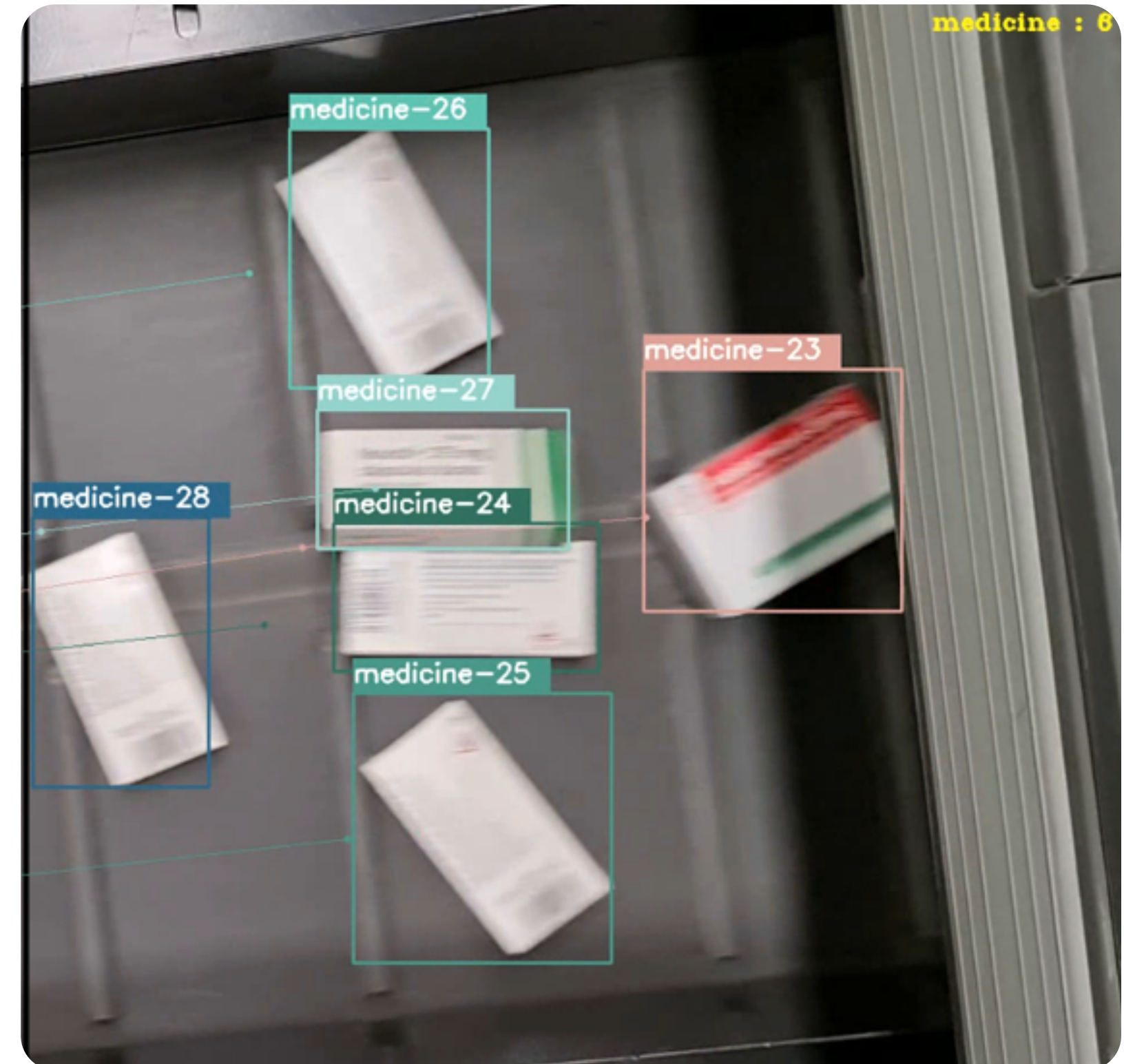
# PROJECT: **COUNTING MEDICINES IN PRODUCTION & PACKING**

Medicines were counted automatically directly from the conveyor belt before moving to packing section. Here the requirement was to define number of medicine packs sent to each medical store and according to that, has to drop into the packing boxes.

Medicines comes as a bunch for supplying to each medical store and it need to be counted at a specific section on the conveyor belt.

## **Features:**

- Computer vision with object detection
- Identification and counting medicine packs at the reference line
- Display the count on the monitoring screen itself





PROJECT:

# BEACH VOLLEYBALL AUTOMATIC REFEREE

Computer Vision with Deep Learning for tracking balls movements, automated scoring process, calculate ball speed, etc. Objective of this project is to have the refereeing automated and with minimal manual intervention.

Apart from this, ball speed when each strike is taken has to be detected and recorded along with player movements.

## Features:

- Court detection and line identification
- Ball tracking and speed analysis
- Player detection, identification and tracking
- Automatic score detection
- Net touching and ball bouncing detection



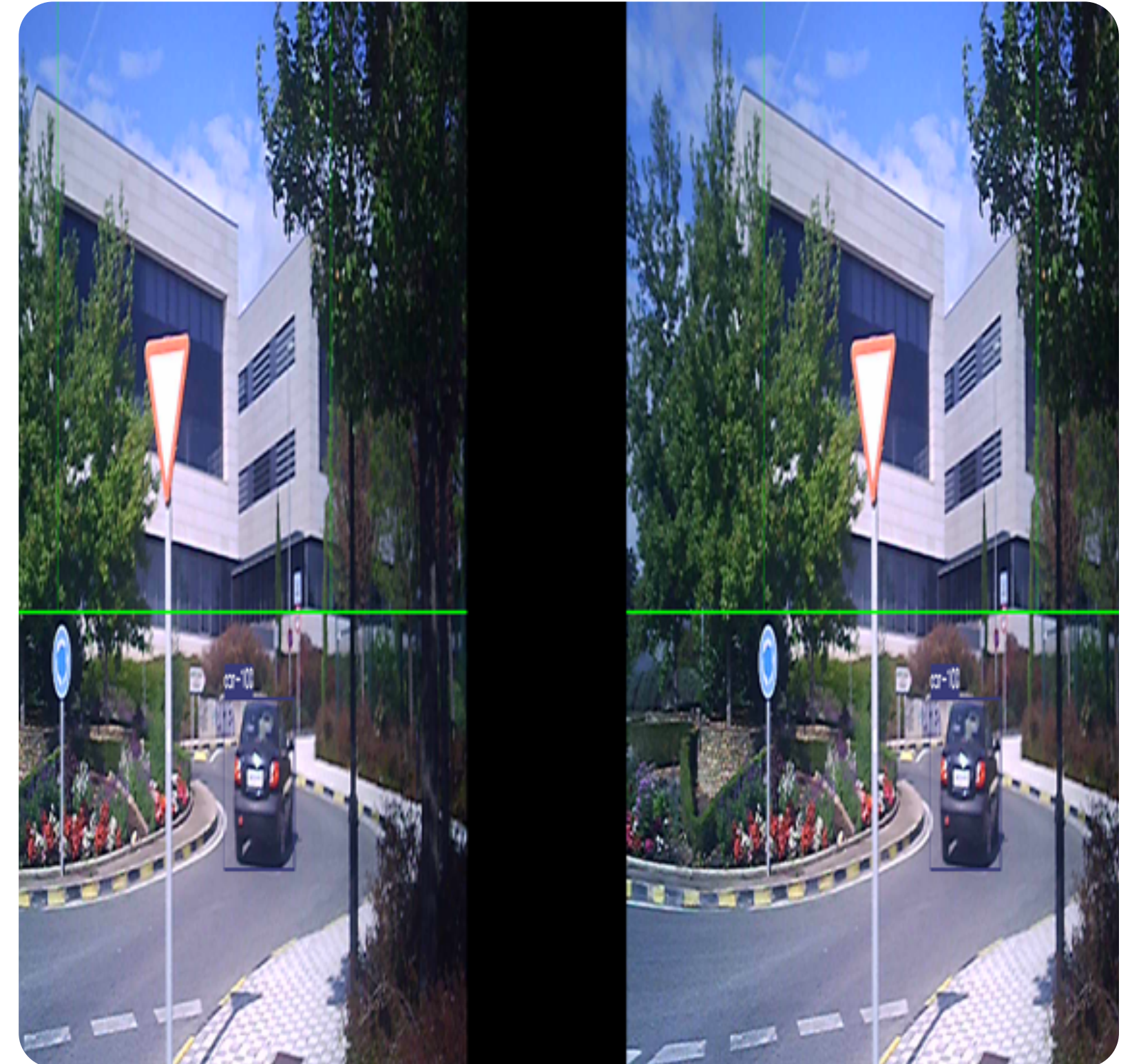


# PROJECT: **PROJECTION OF NON-VISUAL AREAS FOR HEMIANOPIA PATIENTS**

A research and development (R&D) project done for people suffering from partial vision (Hemianopia). Objective was to stitch video frames from the non-visual part of the person to the visible area and project it on a screen. For this, a special portable glass was used which has a camera in front and a screen on the other side.

## **Features:**

- Video capturing and processing on edge device
- Project the output to the portable glass's screen
- Audio alerts on obstacles in the path
- Process accuracy with maximum energy efficiency





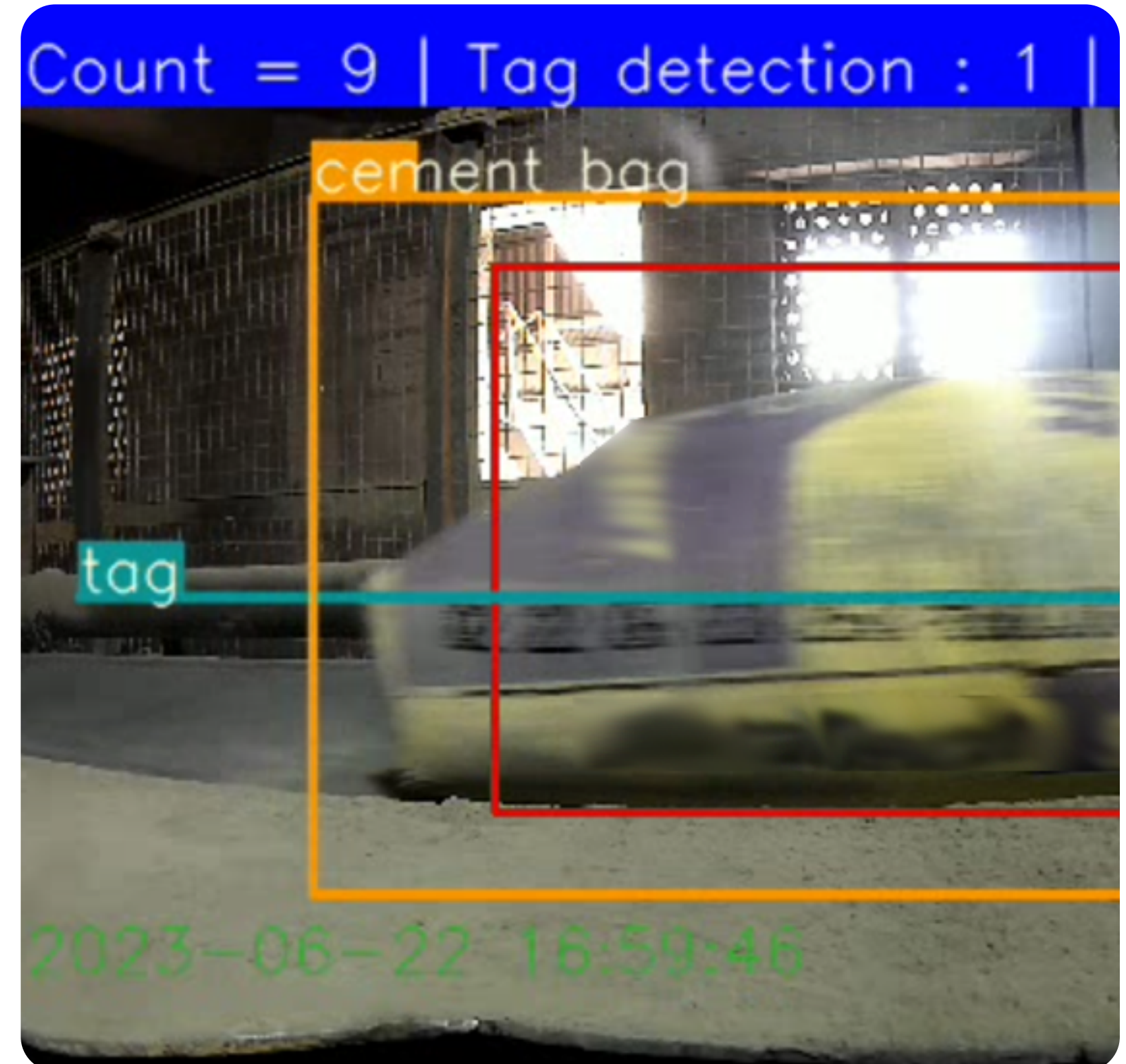
# PROJECT: **REALTIME DETECTION & COUNTING OF CEMENT BAGS INSIDE FACTORY**

Objective of the project was to count the cement bags passing through a conveyor belt. By using a centralized web application, starting and stopping of conveyor belt was implemented.

Within the web application, required number of bags are mentioned and start the counting process, which starts the conveyor also. When the desired count of bags are reached, conveyor is stopped automatically.

## **Features:**

- Computer vision with object detection & tracking
- Identification and counting of bags
- GPIO signal handling for interacting with conveyor
- Web application with report generation process





# PROJECT: **CUSTOMIZED WEB SITES & TAILOR MADE WEB APPLICATIONS**

We take pride in our extensive portfolio featuring a spectrum of meticulously crafted websites and web-based applications designed to meet the unique needs of our global clientele. Our commitment to delivering excellence is evident in the harmonious blend of captivating designs and robust technologies, ensuring optimal performance, speed, and security for every web application we develop.

Our diverse projects, where innovation meets functionality, powered by cutting-edge technologies such as PHP (WordPress, Laravel, CodeIgniter, Core PHP), ASP.net (C#, VB.net), setting the standard for an unparalleled digital experience.





# OUR GOALS

At **Inavan**, our goal is to redefine the landscape of technology solutions by delivering excellence through innovation and dedication. We aim to be a trusted partner for our clients, providing tailored and cutting-edge solutions that not only meet but exceed their expectations.

**Our commitment** extends beyond mere service delivery; we strive to empower businesses and individuals with transformative technologies, fostering growth and success in an ever-evolving digital world. With a focus on quality, collaboration, and continuous improvement, Inavan is dedicated to being at the forefront of technological advancements, driving positive change, and shaping a future where technology serves as an enabler of endless possibilities.





# THANK YOU!

**PLEASE FEEL FREE TO CONTACT US FOR FURTHER DETAILS AND DISCUSSIONS**

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