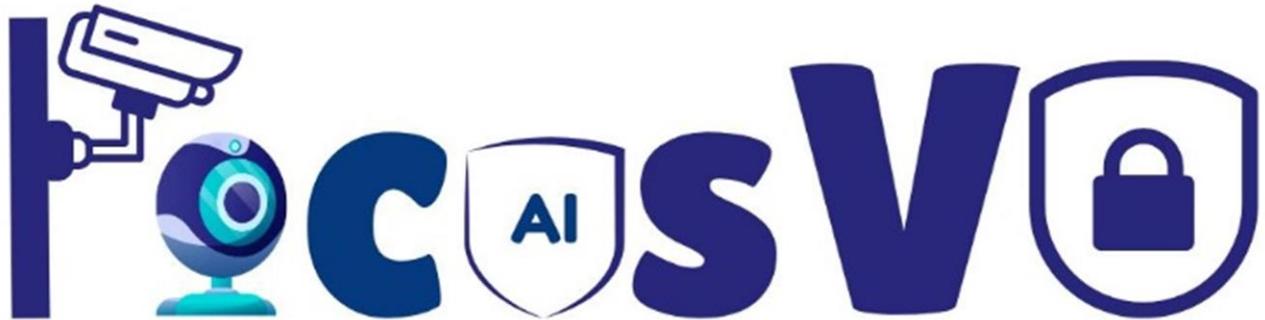


**“The Power of Intelligent Vision”**



**Detect. Decide. Defend, Instantly**



**The Eye of Future Security**

**Mr. Sumiit Katyal**



# FocusVU for Indian Railways, Metros, Rail Transport, etc

## Overview

FocusVU.ai is a next-generation AI-powered video surveillance platform designed to eliminate human dependency, reduce false alarms, and deliver actionable insights in real time. For Indian Railways, the platform offers a suite of smart surveillance capabilities across critical operational domains — ensuring safety, efficiency, and compliance across stations, workshops, warehouses, infrastructure zones, and rolling stock areas.

## 1. RAILWAY PLATFORMS

### Problem Statement

- High footfall zones with elevated risk of intrusion, pickpocketing, unattended luggage, and crowd surges
- Manual surveillance is limited in coverage and prone to fatigue
- Delayed response to human intrusion near tracks, resulting in fatal accidents

### AI-Powered Solution Table

Area	No. of Cameras	Key Features
Entry/Exit Gates	4	Face Recognition, Entry Analytics
Platform Zone	8	Crowd Density Alerts, Unattended Object Detection
Track Edge Monitoring	6	2m Radius Intrusion Alert, Human vs Bird/Object Filtering
Ticket Counters	2	Queue Management, Panic Gesture Detection
Command Center	1	Centralized Monitoring Dashboard, Alert Prioritization

### Advantages

- Real-time alerts for high-risk behaviour
- Prevents track-related incidents
- Data-backed crowd control
- Visual analytics for operational planning

### ROI & Metrics

- Reduction in security manpower by 50%
- ROI achieved in 10–12 months
- False alarms reduced by >90%

## **2. RAILWAY WORKSHOPS**

### Problem Statement

- Risk of unauthorized access to maintenance bays, electrical rooms, and heavy equipment zones
- No mechanism for ensuring PPE compliance
- Lack of traceability during accidents or mishandling

### AI-Powered Solution Table

Zone	No. of Cameras	Key Features
Entry Gates	2	Face Recognition, ID Mapping
Maintenance Bays	6	Helmet/PPE Detection, Unauthorized Entry
Equipment Storage	4	Object Movement Tracking, Theft Alerts
Loading/Unloading Areas	2	Activity Analysis, Vehicle Detection

### Advantages

- Worker safety enforcement
- Asset tracking and accountability
- Incident video logs for internal audits

### ROI & Metrics

- Equipment misuse incidents reduced by 70%
- Improves compliance with safety norms
- Annual savings in lost tools/equipment: ₹5–7 lakhs/workshop

### **3. RAILWAY INFRASTRUCTURE (TRACKS, YARDS, SIGNALING CABINS)**

#### **Problem Statement**

- Vulnerable open zones prone to intrusion, sabotage, or trespassing
- No visibility in remote signal cabins and switches

#### **AI-Powered Solution Table**

<b>Location</b>	<b>No. of Cameras</b>	<b>Key Features</b>
<b>Signal Cabins</b>	2	Intrusion Alert, Activity Logging
<b>Open Yards</b>	6	Perimeter Security, Object Detection
<b>Track Junction Points</b>	3	Tampering Alerts, Real-Time Streaming

#### **Advantages**

- Early warning of sabotage or tampering
- Remote monitoring of critical infra
- Reduced operational delays

#### **ROI & Metrics**

- Theft incidents reduced by 60%
- Improved uptime in switch operations
- Visual data for incident analysis and RPF coordination

### **4. RAILWAY WAREHOUSES**

#### **Problem Statement**

- Lack of round-the-clock monitoring of goods
- Inventory theft or misplacement
- No loading/unloading process verification

#### **AI-Powered Solution Table**

<b>Area</b>	<b>No. of Cameras</b>	<b>Key Features</b>
<b>Entry/Exit Gates</b>	2	Face Recognition, Vehicle Number Logging
<b>Storage Bays</b>	6	Object Movement, Shelf Tampering Detection
<b>Loading Docks</b>	3	Video Verification, Anomaly Detection

#### **Advantages**

- Video proof for inward/outward transactions
- Loss prevention through predictive alerting
- Data for audit and claim disputes

## ROI & Metrics

- Shrinkage reduced by 40–50%
- Reduced pilferage loss
- Improves warehouse efficiency by 20–25%

## 5. PANTRY CARS & RAILWAY CATERING UNITS

### Problem Statement

- No visibility into hygiene practices
- Theft or wastage of food inventory
- Unauthorized kitchen access

### AI-Powered Solution Table

Zone	No. of Cameras	Key Features
Kitchen Area	2	Hygiene Compliance, Hairnet/PPE Detection
Inventory Storage	2	Spoilage/Tampering Alerts
Delivery Points	2	Time-Based Monitoring, Access Logs

### Advantages

- Hygiene audit readiness
- Digital food handling traceability
- Better control of wastage and supplies

## ROI & Metrics

- Hygiene violations reduced by 60%
- Cost savings in supply chain: ₹3–4 lakhs/unit/year
- Improves IRCTC audit scores and customer confidence

### Conclusion

FocusVU.ai empowers Indian Railways to digitize safety, security, and operational efficiency through AI-enabled surveillance. Our modular approach ensures seamless integration with existing infrastructure and scalable rollout across zones.

For implementation strategies, demonstration requests, and partnerships, visit: [www.FocusVU.ai](http://www.FocusVU.ai)