JARVIS
Powered by Staqu

Staqu Supports a Public Sector Agency with JARVIS' Technology to Integrate 70+ Prisons Under One Umbrella

What we have done

The UP Prison Administration and Reform Services wanted to centralize 3000+ CCTV cameras for transparent visibility of over 70 prisons in a single platform. To achieve this, Staqu developed a Centralized Command Center interface of JARVIS at the headquarters in Lucknow to aggregate the video feeds from all the CCTV cameras across all prisons in Uttar Pradesh. As per the stakeholder's requirements, we also enabled insight-based analytics on visitors and inmates to review events such as perimeter security breaches, violence, overcrowding, unauthorized access, and more.

About the client

The UP Prisons are spread across a 243,286 km square area consisting of 5 central jails, 62 district jails, two sub-jails, one women's jail, and two special jails; a model jail and a children's jail. A significant unit of the criminal justice system, UP Prison's goals, and expectations have changed over time as a result of evolution, development, and societal changes. This has led to an increase in the dependence on new emerging technology to fight the newer security challenges by the UP Prisons Administration & Reform Services.

Client: UP Prisons Administration & Reform Services | **Location:** Uttar Pradesh

Situation

Strengthen the Prison Management process by integrating mechanisms such as artificial intelligence and video analytics.

Features

Centralized Accessibility through Video Wall

Unauthorized Access Detection

Violence Detection

Premise Security

Object Detection on Premise Walls

Visitor Monitoring

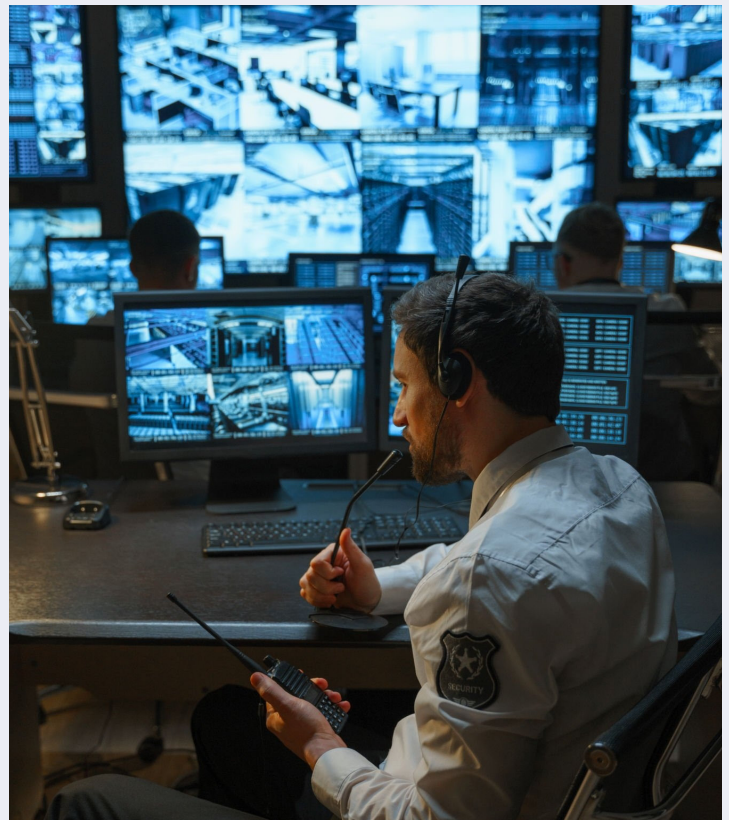Camera Health Detection

Crowd Analysis

SOP Compliance

Covid-19 Safety Compliance

The majority of the CCTV surveillance infrastructure in Indian prisons is usually "out of service" and out-of-date. A large percentage of CCTV cameras only record in poor quality, and the recordings are kept in a local NVR, which has storage capacity restrictions. Additionally, none of the recordings gathered at the remote level allow for any kind of real-time response from the key stakeholders. Thus, they are not really of any use to them. Any event that occurs and is captured by CCTV cameras must first be analyzed in the records before any kind of decision is made. Additionally, there had been a problem with no Centralized Monitoring at the Headquarter level.

💡 Solution

By layering our VMS and VA solution on the existing infrastructure, the prison monitoring process became a lot easier. The undertaking was a huge one, to onboard over 3000 CCTV cameras in more than 70 jails. But our team of AI experts was successful in amalgamating the entire system into one platform seamlessly. Completing the onboarding process, the results saw evident operational efficiency, minimizing violence and intrusion inside the prison premises. Taking a deeper look, Staqu promoted:

Premise Security

Using new technological developments, our team of AI researchers built innovative techniques to further strengthen the security of the prisons. Monitoring perimeters and premises have been made easy with real-time alerts from JARVIS on any anomalies detected.
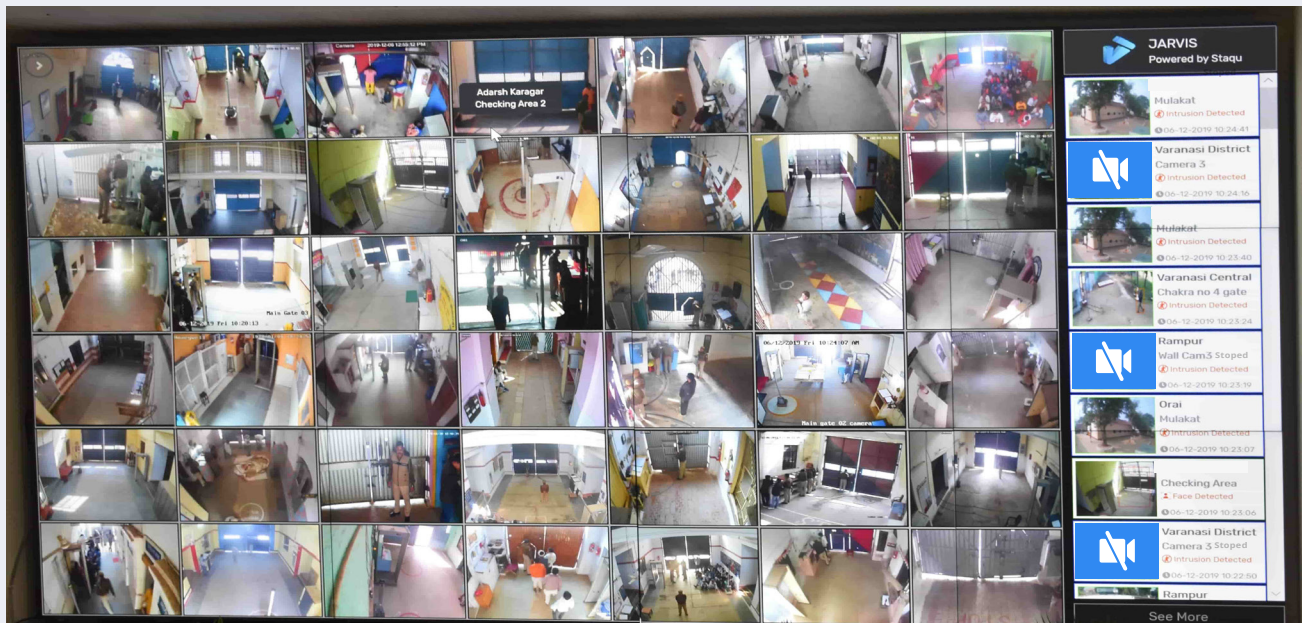
Automated Monitoring

The creation of one common centre to monitor the CCTV footages from over 3000 cameras automated the entire monitoring process. It reduced any downtime in getting and scanning through video footages since the real-time alerts were linked to the video feed of the event of interest.

Centralized Accessibility

The pre-requisite met by the team at Staqu to accumulate all the CCTV footages in one single platform had the most significant effect on the success of the implementation process. The centralized visibility cut back on the revenue used on additional manpower to monitor the CCTV footages. It also eliminated any human error and the higher officials had centralized access to all the prisons 24*7 without any delay in receiving critical information.

Predictive Analytics

Detecting suspicious activity to avoid violence inside the premise and information sharing between inmates and outsiders was made easier with predictive analytics. Violence detection, premise security, object detection on premise walls, visitor monitoring, crowd analysis, has helped concerned officials in expediting operational efficiency in the prison premises.

Impact

27%
increase in operational efficiency

21%
reduction in OPEX

40%
reduction in manual work

100%
centralized visibility

" "We are glad to integrate a cutting-edge advanced solution JARVIS that allows us to closely monitor & scrutinize all the activities that take place in a prison call"

Mr. Anand Kumar
DG Police/I.G. Jail Prison Administration & Reform Services U.P.

With the introduction of JARVIS in the UP Prisons Administration & Reform Services, the major roadblock of not having a central accessibility was removed. With the JARVIS VMS, the entire monitoring system was automated with real time alerts and notifications that could be acted upon instantly. Additionally, with **100% centralized visibility**, the tracking process was simplified. This resulted in the decrease of manual labour which was previously required to monitor lakhs of video footage. The client saw a **21% reduction in OPEX** as a fruitful outcome of the JARVIS video analytics solution

Our Clients

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