JARVIS
VIDEO ANALYTICS

AUTOMATING SAFETY, SECURITY & OPERATIONAL PROCESSES

ABOUT STAQU

Staqu is an award-winning AI research firm having more than 5 years of experience in solving complex business processes. Our products are actively being used by law enforcement and major private enterprises worldwide. With a proprietary AI technology stack comprising of advanced image and video analysis tools, language and text-independent speaker identification engine, speech recognition, facial recognition, and text processing APIs, Staqu provides plug n play solutions across the industry to solve critical business problems.

EXECUTIVE SUMMARY

JARVIS is an AI-powered video analytics technology that utilizes the existing CCTV infrastructure of manufacturing, warehousing, and logistics facilities. Thus, helping them automate the entire safety, security, and operational processes:

- Minimizing the security, safety, and facilities workforce cost up to **25%**
- Minimizing the theft and pilferage issue up to **50%**
- Minimizing the risk of non-compliance by ensuring **SOP** adherence
- Increase in operational **efficiency and productivity** of employees
- Minimizing other **unmitigated risks & loss** due to human error/bias
- Quick resolution to forensic investigations on offline video footages (including cloud backup)
- **Real-time** streaming & alert monitoring on the video wall, mobile and control command center
- **Centralized** visibility of all locations to senior leaderships with an audit report and real insights

POST JARVIS IMPACT ANALYSIS

MANUFACTURING, WAREHOUSES AND INFRASTRUCTURE

SAFETY & SECURITY MODULE

- No Safety Helmet/ Jacket Detection
- Person Movement Near Hazardous/ Heavy Machineries
- Face Recognition To Identify Blacklisted/ Authorised
- Fire Detection
- Perimeter Security
- Intrusion Detection
- Violence Detection

VEHICLE ANALYTICS MODULE

- ANPR - Automatic Number Plate Recognition
- Yard/ Parking Management
- Weighbridge Vehicle Analytics
- Loading/ Unloading Time and TAT Calculation
- Vehicle Movement Tracking
- Wrong Direction Movement/ Parking
- Overspeeding Detection

ADVANCED ANALYTICS MODULE

- Forensic Analysis - offline feed
- No Face Mask Detection
- Social Distancing Check
- Visitors Footfall Analysis
- Demographics (Age/ Gender)
- Baggage/ Box/ Pallet Counting
- Camera Tampering
- Quality Check Automation (SOPs)

+25 Other Events To Choose From

> **"**
> *AI will disrupt all industries, Don't be left behind...*
> – David Waterloo
> **"**

IMPACT ANALYSIS

- **Piramal Glass** getting real-time manufacturing insights with JARVIS AI
  - Reducing manual intervention for monitoring workplace safety
  - Optimizing their safety, security, and operational SoPs
  - Within 2 months, now going to utilize JARVIS for bottle and pallet counting to maintain transparency and minimize pilferage

- **Embassy Group** utilizing JARVIS to automate their safety, security and facility operational processes. Helping them to minimise facility and security manpower cost by up to **30%**. Also, the advanced analytics module helps them understand footfall, demographic and customer experience at their facilities.

- **JK Cement** utilizing JARVIS to strengthen its operational processes. Some of the features include baggage counting, vehicle loading/ unloading time calculation, and yard management are helping them minimise theft and pilferage cost.

Are you ready to adopt this new technology?

Manual Monitoring - Safety and Security	JARVIS Video Analytics Automation
Humans can be biased and ignorant towards suspect (thief) for personal benefit	Unbiased way of identifying suspicious activities across facility
Manual security staff can not be active 24*7 and even if they find out some suspicious activity it may incur some unusual delay in communication	24*7 Surveillance with real-time alerts, can trigger alarm to enable security staff (enable them with tech for proactive monitoring)
There's no way to track their productivity or in case any theft/pilferage happens then there's no way to track it (if missed by security staff)	Using JARVIS, you can keep a check on staff productivity by checking twice or thrice a day randomly (he's present or not). In case of any suspicious activity, you can access audit report from JARVIS and the same can act as a proof or evidence
Employee theft can create staggering losses within warehouses.	NA
Limited security staff can not cover all warehouse areas and thus, organization can not rely on these staff as they're at very nominal salaries	NA

Other unmitigated risk factors with JARVIS		Other unmitigated risk factors with manual monitoring	
JARVIS accuracy	More than 95%	Human monitoring accuracy	80%
Risk of casualties/ penalties	0.5 %	Risk of casualties/ penalties	1%

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