



Worker Safety @Edge

Improving worker safety leveraging
Computer Vision @Edge

The client is a US-based multinational corporation that develops medical devices, pharmaceuticals, and consumer packaged goods.

Overview

In construction, manufacturing, and oil & gas industries, organizations operate in environments with industrial machinery under volatile conditions, which exposes workers to risk. The direct costs include compensation payouts, litigation, and rise in insurance premiums. The indirect damage includes loss of productivity, missed business opportunity, and higher recruiting costs.

Leveraging the power of Industry 4.0 on the human side of operations, the organizations can provide safer and smarter environment for their workforce. Computer Vision @Edge enabled monitoring solution can build a virtual safety net for its employees by identifying those who do not follow safety protocols in real-time and alerting safety manager thereby ensuring 100% safety compliance.

Approach to Resolution– The LTIMindtree Advantage

LTIMindtree Worker Safety @Edge is a computer vision-driven and video analytics solution focused on ensuring safety of workers at plant or site through IoT for better planning, decision-making and eliminating uncertainties with reactive interventions. The edge-based solution detects safety compliance breach in real-time and raises alerts for timely interventions. The facility managers are notified on site to enforce safety compliance.

Solution Features



Integrated existing surveillance cameras and provided real-time safety non-compliance alerts on a single dashboard using computer vision technology.



Image recognition and classification system assessed video feed from camera based on pre-built machine learning architecture to identify unsafe worker behaviour in real-time.



Automated data aggregation of generated safety alerts helping in refining the existing recognition model and enable supervisor to take data-driven decisions.



Template-based cloud solution that can be rolled out across multiple sites with a quick turnaround time.

Business Benefits



Increased Accountability

Collected data can be reviewed to identify hazards, allowing for safety suggestions and timely corrective action.



Automate Inspection and round-the-clock Worksite Observation

Continuous zone wise observation and real-time alerts to prevent incidents/near misses.



Lower Risk for Workmen

Proactive alerting by monitoring worker movement.



100% Safety Compliance

Ensure safety compliance across the site with real-time detection and safety alerts.

LTIMindtree is a global technology consulting and digital solutions company that enables enterprises across industries to reimagine business models, accelerate innovation, and maximize growth by harnessing digital technologies. As a digital transformation partner to more than 700+ clients, LTIMindtree brings extensive domain and technology expertise to help drive superior competitive differentiation, customer experiences, and business outcomes in a converging world. Powered by nearly 90,000 talented and entrepreneurial professionals across more than 30 countries, LTIMindtree – a Larsen & Toubro Group company – combines the industry-acclaimed strengths of erstwhile Larsen and Toubro Infotech and Mindtree in solving the most complex business challenges and delivering transformation at scale. For more information, please visit www.ltimindtree.com.