LTIMindtree

Case Study

Worker Safety Solution for
Largest Engineering & Construction Company in India

Client

The client is largest engineering & construction company in India. It constructs water supply network, operate and maintain on build, own, operate and transfer basis.

Business Challenges

- With expanding operations, the client wanted to ensure complete industrial safety and injury prevention by driving PPE regulations compliance to ensure safe operations and avoid near miss incidents.
- Delayed response time in case of incidents due to lack of real-time alerts to facility manager.
- Lack of zone wise safety monitoring and no compliance adherence tracking system to ensure worker safety on the construction site.
- No evaluation of historical incident leading to repeated events of near misses.

LTIMindtree Solution

LTIMindtree Worker Safety Solution is a computer vision @Edge & video analytics-based solution ensuring worker safety with compliance monitoring and providing alerts. The edge-based solution detects safety compliance breach in real time and raises alerts for timely interventions.
HSE manager are notified in case of any aberration enabling faster response to ensure safe environment.

Solution Highlights

Implemented AWS Computer Vision @Edge solution for monitoring workforce, tailgate detection, identification of hazardous scenarios and noncompliance to safety regulation

The solution included machine learning model with continuous processing of video feed from camera that enabled continuous workforce safety monitoring and real-time alerts in case of noncompliance

Provided a centralized dashboard for site managers and security supervisors, with a single screen view of multiple sites providing a comprehensive list of incidents and escalation matrix for timely corrective actions

Workplace insights for multiple construction sites wise safety score and safety compliance performance report enabling data driven decisions by site in-charge to mitigate risks

Business Benefits

100% safety compliance with continuous monitoring of **30000+ personnel**

Reduced fatality rates with increased visibility and faster response time

Increased accountability with incident reports that can be reviewed to identify hazards, allowing for safety suggestions and timely corrective action

Automate inspection and round-the-clock worksite monitoring

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