**PROBLEM STATEMENT:**

* The problem statement for real-time video analytics for industrial safety is the need to effectively monitor and analyze video footage in real-time to ensure the safety of workers and prevent accidents in industrial settings.
* This involves detecting and alerting potential hazards, such as unauthorized personnel, unsafe behaviors, or equipment malfunctions, as well as providing actionable insights to improve safety protocols and prevent future incidents such as Fire , smoke etc.
* The goal is to leverage advanced video analytics technologies to enhance industrial safety measures and create a secure working environment for all employees.

**TEAM DETAILS:**

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**Title:**

* **Safezone;Real-Time video analytics for industrial safety.**

**General description:**

By employing such a real-time video analytics tool, industries can significantly improve worker safety, reduce accidents, and enhance overall operational efficiency by proactively mitigating potential risks and hazards.

**Novelty/Uniqueness**

* The real-time video analytics tool's novelty lies in its proactive, data-driven, and highly customizable approach to industrial safety management.
* By combining advanced video analytics technologies with predictive insights, seamless integration, and a strong focus on worker privacy, it offers a unique solution to enhance industrial safety and prevent potential hazards and accidents in industrial environments**.**

**Business And Social Impact:**

* The development and successful implementation of a real-time video analytics tool for industrial safety can have a transformative impact.
* Improving both the business operations and the social well-being of workers and communities associated with industrial environments.
* It aligns with the broader goal of creating safer, more efficient, and responsible industries for a sustainable future..

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**Technology Stack**

* Artificial Learning,
* Deep Learning
* Object Detection
* Yolo V8
* Flask
* Python

**Scope of Work**

