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Employee Safety Monitoring Solution for a Cast Alloy Company

About the Client

The Client is a Global Cast Alloy company having its manufacturing client based in India

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Business Problem

The customer produces alloy metal parts & export the parts to global automotive manufacturers. The casting business is risky as it involves dealing with molten metal. Any negligence, could cost a human life. The customer wanted to do a pilot of Computer Vision based Employee Safety Solution.

Solution

The customer identified few uses cases for PPE (i.e. Personal protective equipment's) as well as metal spill over conditions. In the PPE, the aim was to detect employee on the shop floor without goggles, hand-glows, caps. We developed a custom AI Models to address these non-compliances and raise an email alert real time. We also developed very complex AI Model to recognize the metal spill over & raise an alert real time. All this was done in a record time & the pilot was a success.

Outcome

The Pilot was successful and the client was convinced about the usage of AI for the Employee Safety solution.

Technology Used

Python, Deep Learning, Face Recognition, Object Recognition, Flask APIs

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