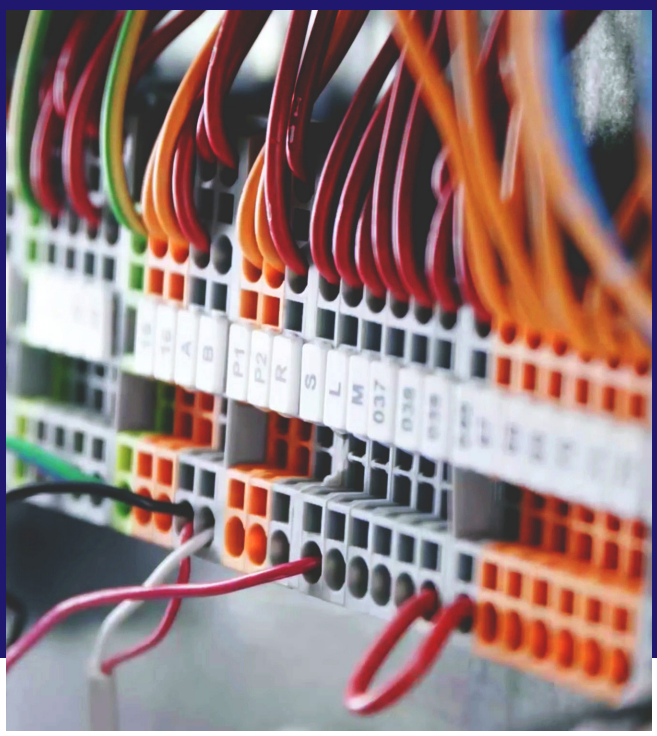
Gramener
A Straive Company



Removing Defective Terminal Blocks

Challenge:

A major electrical interconnection manufacturer struggled with manual defect detection in engine bores, producing over 85,000 terminal blocks daily. Their process involved inspecting 25 variants at 65 parts per minute, but unreliable detection posed challenges.

Solution:

We implemented an automated inspection system with Deep Learning AI to orient variant types. This system generated consolidated reports for defect analysis and integrated them with an automatic rejection system for removing defective terminal blocks.

Impact:

AI-based automation provided **100%** accuracy in defect prediction across 12 types of defects.

It eliminated defect spillage per year by avoiding distributor returns.

About Gramener

Gramener - a Straive company is a design-led data science firm. We build custom Data & AI solutions that help solve complex business problems with actionable insights and compelling data stories. We partner with enterprise data and digital transformation teams to improve the data-driven decision-making culture across the organization.

Our open standard low-code platform, Gramex, rapidly builds engaging Data & AI solutions across multiple business verticals and acts like an accelerator for utilizing and optimizing cloud native services. Our solutions, technology and cloud data engineering services have been recognized by analysts such as Gartner and Forrester and have won several awards.

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