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Case Study

Leather Quality Monitoring for a Shoe Manufacturer





About the Client

The Client is a leading Shoe Manufacturer in India

Business Problem

The Client (Shoe manufacturer) was looking to automate visual inspection of leather to detect ten different type of defects (anomalies) on the leather surface. The manual approach was error prone. They also wanted to cut down the size of the QA team by doing the quality process automation.



Solution

We developed a solution using computer vision and deep learning to automatically detect defect on leather surface. Around 150 images of each category of defects were provided for AI Model training. The AI model would analyse the live high resolution camera feed, detects & localize defect present on the leather surface. The AI model could identify and classify all the 10 categories of defects with a very high accuracy. This high accuracy enabled the Client to automate the leather surface visual inspection (quality) process.



Outcome

With the AI Powered solution the Client was not only able to automate the Visual Inspection process but also able to cut down the size of the quality team by 60%. The solution generated massive operational cost saving and yet improved the product quality.

Technology Used

Python, Deep Learning, Object Detection, Classification, Django, RESTful APIs





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Office Locations

Pune, India

3rd floor, Sargam Tower
Anna Saheb Chirmule
Path, Neel Kamal
Society, Karve Nagar,
Pune 411052

Middletown, USA

651 N. Broad St.
Suite 206,
Middletown,
DE 19709

London, UK

Suite 858, Unit 3A,
34-35 Hatton Garden,
Holborn, London,
EC1N 8DX

Email us for your technology needs
contact@shyenatechyarns.com

Schedule an appointment on
www.shyenatechyarns.com

