

## 1. **Material name detection through actual material scanning.**

We would like to formally propose a series of image scanning detection-based quality assurance projects to enhance our inspection process, ensure higher accuracy, and reduce rejection rates across the production cycle. These solutions aim to automate and standardize visual inspection tasks, using advanced image processing and AI techniques to identify potential defects and deviations in real time.

### **A) Material Verification during Weighing (Initial Focus)**

Objective: To verify and match the actual material being used with the Goods Receipt Report (GRR) during the raw material weighing process.

Benefits: Eliminates risk of weighing the wrong material. | Ensures traceability and compliance with specifications. | Supports digital documentation of every material batch.

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