



Business-friendly Solutions



**Case
Study**

**Computer Vision @Edge Solution
for Quality Control in a CPG
Manufacturing Line**



Client

A leading Indian FMCG manufacturer



Business Challenge

- The client was looking for an efficient solution to eliminate NTRM in tobacco
- Unavailability of reliable quality inspection solutions led to an increase in operational expenses due to rejection of product at end of line quality check
 - Production lead time increased due to the unavailability of an automated in-line quality control system
 - Absence of a solution to automatically recognize NTRM led to human error and the plant could not meet the desired quality
 - Due to manual removal of NTRM, which are prone to errors, desired product quality not being met



ITC Infotech Solution

- To improve the production & operational efficiency, ITC Infotech implemented Industry 4.0 based solution leveraging computer vision @Edge for real-time detection and elimination of Non-Tobacco Related Matter (NTRM)
- Edge computing solution powered with deep neural network algorithm to identify, label, and reject NTRM effectively
 - Advanced IoT based solution to provide real-time visibility over the manufacturing process
 - Uses a combination of different techniques like object detection, pneumatic segregation, and image classification

Achieved identification efficiency of **96%** for plastics and feathers



Production efficiency on the shop floor improved by 12%



Business Benefits



Significant reduction in quality inspection time & effort



Increase accuracy of quality inspection

About ITC Infotech

ITC Infotech is a leading global technology services and solutions provider, led by Business and Technology Consulting. ITC Infotech provides business-friendly solutions to help clients succeed and be future-ready, by seamlessly bringing together digital expertise, strong industry specific alliances and deep domain expertise. The company provides technology solutions and services to enterprises across industries through a combination of traditional and newer business models, as a long-term sustainable partner.

www.itcinfotech.com

