

AI-POWERED CRATE COUNTING SYSTEM

Revolutionizing Dairy Operations Through Intelligent Automation

TRANSFORMING DAIRY LOGISTICS WITH AI

Ittanta Technologies introduces a next-generation AI-Powered Crate Counting System designed to revolutionize crate counting in dairy operations. Our intelligent solution automates the counting process for crates moving on conveyor belts ensuring accuracy, speed, and real-time visibility while minimizing human intervention.

KEY BUSINESS BENEFITS

- **Increased Efficiency:** Fully automated counting process minimizes human dependency.
- **Real-Time Visibility:** Live monitoring of crate movement and count.
- **Data-Driven Insights:** Analytics dashboard for informed decision-making.
- **Operational Transparency:** End-to-end tracking for improved accountability.
- **Scalability & Reliability:** Robust system architecture adaptable to multiple sites.

APPLICATIONS

- Beverage and Packaging Units
- FMCG Logistics
- Dairy Production Plants



TECHNICAL & FUNCTIONAL HIGHLIGHTS

System Architecture

- **Edge-Level Intelligence:** AI-based camera modules installed along the conveyor belt for real-time crate detection and counting.
- **Backend Server:** Handles load-balanced data processing and management for seamless operations.
- **API Integration:** RESTful APIs for KPI exposure and integration with ERP or plant monitoring systems.
- **Database Layer:** Uses PostgreSQL for secure and consistent storage of transactional data.
- **Real-Time Communication:** Live dashboards for instant updates and performance tracking.
- **Security & Compliance:** Designed in accordance with industry standards to ensure data protection and system reliability.

BUSINESS IMPACT

- Up to 80% reduction in manual effort.
- Near 100% counting accuracy.
- Faster truck turnaround time.
- Improved operational consistency and accountability.

CONTACT US

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About

Ittanta Technologies

At IttantaTechnologies Pvt. Ltd., we focus on delivering AI-driven industrial automation and smart analytics solutions. Our mission is to help industries achieve operational excellence through cutting-edge technologies in computer vision, machine learning, and IoT integration.

We are committed to creating intelligent systems that enhance productivity, accuracy, and sustainability in modern manufacturing and logistics environments.