

AI-Powered Yoghurt Production Management System

Our Team

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Problem

Challenges in yogurt production:

- Inefficient batch formation
- Wastage due to poor inventory management
- Lack of real-time tracking of additives
- Inefficient order fulfillment and sales tracking

objectives

- AI-powered yogurt production management system
- Automates batch formation, inventory tracking, and sales processing
- Reduces waste and improves efficiency

Core Functionalities

01

Frontend: Batch Formation, Additive Tracking, Packaging & Labeling, Sales Order Management

02

Backend: Batch Management, Inventory Management, Sales Order Processing

03

Data Models: Batch, Additive, Packaging, Sales Order, Inventory Item

Optimization & Quality Control

- AI-powered Production Optimization
- Quality Control Dashboard
- Backend Services: AI Optimization Service & Quality Control Service
- Data Models: ProductionSchedule, QualityControlData

Expected Benefits

- Improved efficiency & reduced waste
- Better production planning with AI
- Enhanced traceability & compliance
- Streamlined sales order processing

Conclusion

- The AI-driven Yogurt Production Management System revolutionizes efficiency, reduces waste, and enhances quality control.
- By leveraging automation and AI, we streamline batch formation, inventory tracking, and sales order management.
- Optimized production scheduling and real-time quality monitoring ensure consistency and cost-effectiveness.
- Moving forward, we focus on implementing core functionalities and integrating AI for optimization and quality control.
- This system is not just about better yogurt production—it's about smarter, more sustainable manufacturing for the future.

Thank You