Tecblic

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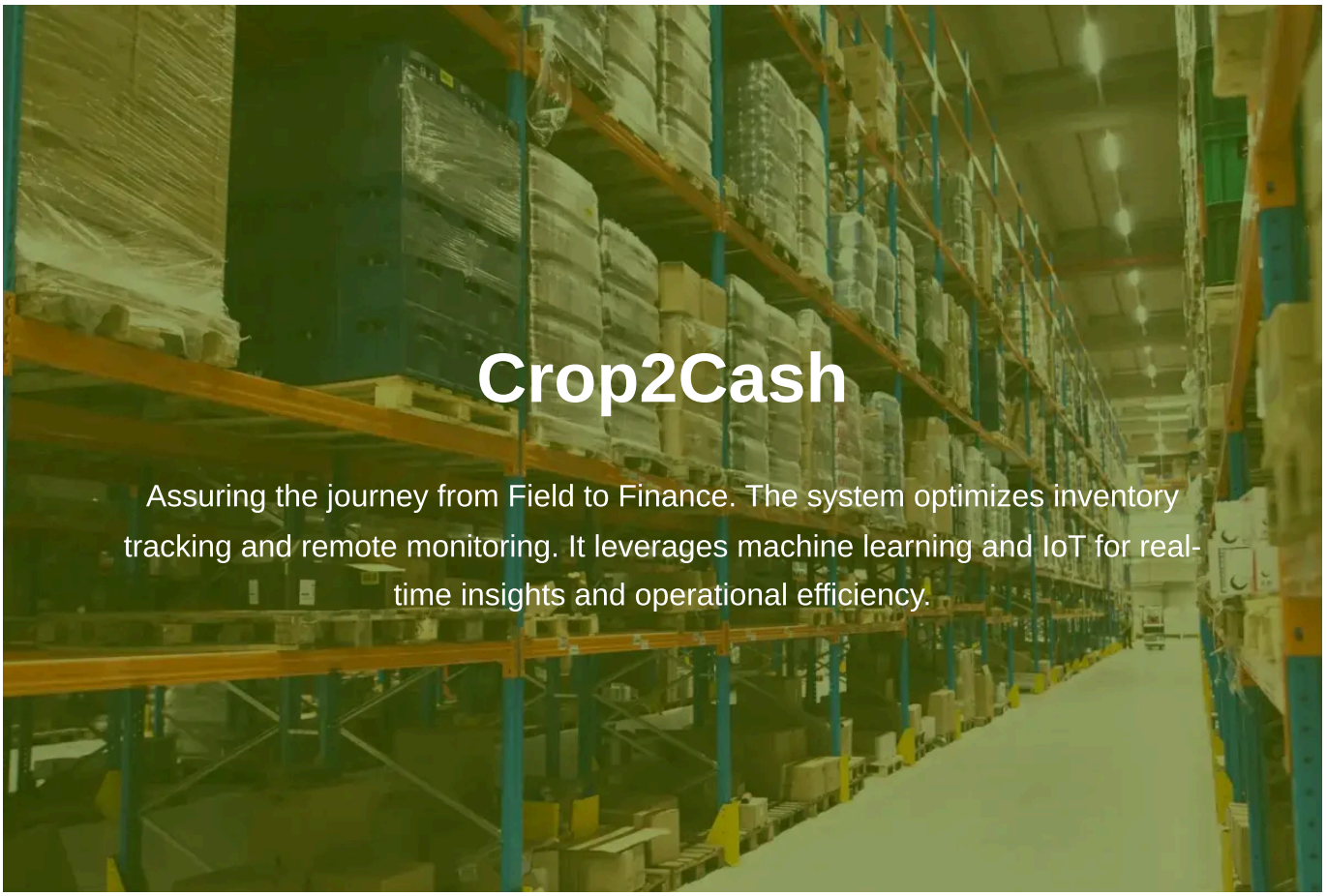

Crop2Cash

Background

Crop2Cash is committed to eco-friendly business practices, seeks to enhance warehouse management operations to align with its sustainability goals. Efficient inventory control, streamlined order processing, and real-time tracking were critical for scaling their operations, also integrating AI for increasing the operational efficiency having complete control over the data with predictive approach.

Key Challenges

Manual processes led to inventory discrepancies, delays in order fulfillment, and increased operational costs. Lack of real-time tracking hindered efficient resource utilization and affected delivery timelines. Client wanted to reduce waste and carbon footprint, necessitating a system that supports green logistics. Existing systems lacked the scalability to accommodate client's growth and expanding warehousing needs. Difficulty in integrating with existing ERP, and supply chain systems, leading to data silos and process inefficiencies.

Our Solution

Tecblic developed Crop2Cash, an AI-based ERP system tailored to address clients's unique warehousing challenges. Utilizes machine learning algorithms for precise inventory management, reducing overstocking and stockouts. Incorporates IoT devices for real-time monitoring, enabling automated alerts and updates on inventory and shipments. Implements eco-friendly practices, optimizing resource usage and minimizing waste to support clients's green initiatives. Designed to scale with growth, Crop2Cash supports multiple warehouse locations and diverse product lines. Provides robust APIs for easy integration with existing systems, ensuring centralized data management and streamlined operations. By implementing Crop2Cash, the client has enhanced its warehouse efficiency, reduced its carbon footprint, and achieved scalable growth, which aligns with its sustainability mission.

Tech Stack

ReactJS: Intuitive UI/UX for warehouse staff

Python: Django - Secure and scalable API services

PostgreSQL: Efficient data storage and retrieval

Flutter: Cross-platform app for warehouse management

Blockchain: Immutable data logs and enhanced security

AI/ML (TensorFlow, PyTorch): Predictive analytics for optimized inventory

Value Delivered

30% increase in warehouse efficiency

40% reduction in operational costs

100% Inventory accuracy

Higher customer satisfaction & faster deliveries