



Satkar Foods – AI-Driven Enterprise Solution

An enterprise system integrating AI with Odoo to optimize production, streamline operations, and enhance efficiency in food manufacturing.

Satkar Foods – AI-Driven Odoo Enterprise Manufacturing Solution

Background

Satkar Foods is a well-established food manufacturing and distribution company, known for producing high-quality packaged food products. With growing demand and expansion into multiple regions, they faced challenges in managing their supply chain, warehousing, inventory, and financial operations effectively. Their existing system was outdated, lacked automation, and required excessive manual intervention, leading to inefficiencies and operational bottlenecks.

Key Challenges

Different departments like manufacturing, inventory, and accounting operated on separate systems, making data management cumbersome. There was no centralized platform to track stock levels, production status, and financial performance in real-time. Inefficient supply chain management, managing procurement, supplier relationships, and distribution across multiple locations, was complex and error-prone. Manual inventory tracking, stock levels were manually

updated, leading to inaccuracies and stockouts or overstocking. The finance team struggled with manual bookkeeping, delayed reconciliations, and compliance issues.

Our Solution

To address these challenges, we implemented an AI-Driven Odoo Enterprise Manufacturing Solution, a robust ERP system with AI-powered automation and analytics to optimize all business operations seamlessly. Odoo Enterprise was configured to integrate manufacturing, warehousing, inventory, distribution, and finance under a single system, reducing dependency on multiple software tools. The new system enabled real-time stock tracking, automated stock replenishment, and barcode scanning for accurate warehouse management. Odoo's logistics module streamlined procurement, supplier management, and order fulfillment, ensuring on-time deliveries and cost-effective operations. The production module helped optimize resource allocation, track work orders, and improve production planning to meet increasing demand. AI-based anomaly detection ensured product quality by identifying defects in the manufacturing process. Implemented automated accounting features, ensuring accurate invoicing, financial reporting, tax compliance, and real-time cash flow monitoring. Implemented predictive analytics to optimize inventory levels and reduce stock shortages.

Tech Stack

ERP Platform: Odoo Enterprise

Database: PostgreSQL

Cloud Infrastructure: AWS

Automation & Integrations: API Integrations with suppliers and logistics partners

AI & Machine Learning: Python, TensorFlow, AI-driven Analytics

Barcode & RFID: Warehouse inventory tracking

Financial Tools: Odoo Accounting, Tax Compliance Modules

Value Delivered

100% Reduction in manual inventory errors with automated stock tracking.

60% Faster Order Processing, improving supply chain efficiency.

Real-Time Financial Insights, enabling quicker decision-making.

Seamless Manufacturing Planning, reducing production delays.

Improved Warehouse Management, leading to optimized storage and logistics.

Scalability for Growth, allowing Satkar Foods to expand into new markets effortlessly.