

AI-Powered Smart Inventory Planning System

1. The Business Problem

- Running out of stock and losing sales.
- Over-stocking and blocking working capital.
- Planning based on guesswork instead of data.
- No early warning before inventory problems occur.

2. Our Solution

We built an AI-driven web application that helps businesses decide WHAT to order, HOW MUCH to order, and WHEN to order — automatically.

3. Core Strength: Artificial Intelligence & Machine Learning

- Machine Learning analyzes historical sales patterns across multiple SKUs and stores.
- Detects seasonality, trends, and hidden demand patterns automatically.
- Predicts future demand using advanced forecasting algorithms.
- Identifies abnormal behavior, risk signals, and unusual demand spikes.
- AI generates human-readable recommendations for action.
- Continuously improves as more data becomes available.

4. How the System Works (Simple Explanation)

- Step 1: ML studies past sales data for each SKU and store.
- Step 2: The system forecasts future demand accurately.
- Step 3: Supply planning calculates reorder quantity and timing.
- Step 4: Risk engine flags stockouts, excess inventory, and slow-moving items.
- Step 5: AI suggests corrective actions with clear explanations.

5. Business Impact

- Reduces stockouts and increases sales.
- Prevents overstock and frees up capital.
- Improves cash flow and profitability.
- Provides centralized visibility across multiple stores.
- Transforms reactive planning into proactive, AI-driven decision making.

6. One-Line Summary

An AI-powered planning engine that eliminates guesswork and brings intelligent, automated decision-making to inventory management.

Smart Planning System for Businesses

Simple Explanation of What We Do

1. The Problem Businesses Face

- Running Out of Stock – Customer comes but product is unavailable, leading to lost sales.
- Over-Stocking – Too much stock blocks money, increases storage cost and expiry risk.
- No Clear Planning – Most businesses rely on guesswork, last month sales, or gut feeling.

2. What We Have Built

We built a Smart Planning Web Application that helps businesses decide how much to order, when to order, which product is risky, and how to avoid stock problems. It works for multiple stores and multiple products (SKUs).

3. How It Works

- Studies past sales data to understand product patterns and seasonality.
- Predicts future demand using forecasting models.
- Creates a smart supply plan showing when and how much to reorder.
- Automatically detects risks like stockouts, overstock, or unusual demand spikes.
- Uses AI to give simple recommendations on what action to take.

4. Why This Is Powerful

- Saves Money – Reduces overbuying and improves cash flow.
- Increases Sales – Prevents stockouts and lost customers.
- Smarter Decisions – Data-based planning instead of guesswork.
- Works Across Many Stores – Identifies risk at store and SKU level.

5. Who Needs This?

- FMCG distributors
- Retail chains and supermarkets
- Pharma distributors
- E-commerce sellers
- Small manufacturers

6. What Makes This Different?

Most businesses use Excel and manual planning. Our system predicts problems before they happen, detects risks automatically, and suggests actions using AI. It acts like a full-time data analyst and inventory expert.

7. Simple Example

If a shop usually sells 100 units per month but sales increase during summer or festivals, our system detects this pattern and recommends increasing stock in advance. This prevents stockouts and panic ordering.

One-Line Summary

We built an AI-powered planning system that tells businesses what to stock, how much to stock, and when to stock — without guesswork.