

GREENCART – AI- POWERED SUSTAINABLE SHOPPING ASSISTANT



TEAM LEADER:

Varshini G S

TEAM MEMBERS:

Deepana S

Swetha Mohan

Vibusha Magesh

PROBLEM STATEMENT

- Retailers face daily losses from unsold perishable items nearing expiry
- No intelligent system to predict which items are at risk of going to waste
- Missed opportunity to apply smart, profit-optimized discounts
- Limited ability to track or improve sustainability impact in real-time
- Customers lack visibility into the eco-benefits of their purchase choices



Food and
product waste



No real-time
sustainability
guidance for customers



Retailers struggle
to make eco-impact
measurable



Missed opportunity
to reward green
behavior



SOLUTION

Real-Time Inventory Monitoring

- Continuously tracks stock levels and expiry windows across all store locations.

Automated Alerts & Task Triggers

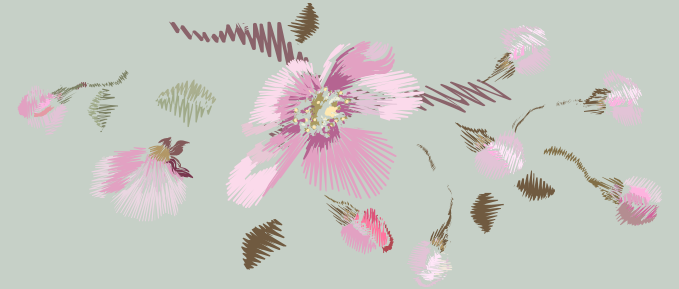
- Notifies staff to take timely actions (e.g., restocking, repositioning, markdowns).

Sustainability Scorecard

- Measures and reports environmental impact — food saved, emissions avoided, and landfill diversion.

Customer Incentive Integration

- Offers loyalty rewards for eco-conscious purchases and helps build brand trust.



Perishable Inventory Optimizer – Powered by AI

- **Predictive Intelligence:**

AI analyzes sales patterns, shelf life, and real-time inventory data to predict which perishable items are at risk of going unsold or expiring soon.

- **Smart Discounting:**

The system automatically recommends dynamic discounts based on expiry timelines, demand trends, and inventory turnover goals — ensuring items sell *before* they spoil.

- **Waste Reduction, Revenue Growth:**

By proactively managing near-expiry stock, retailers can significantly reduce food waste, unlock hidden profit, and boost customer satisfaction with timely offers.

- **Manager-Friendly Dashboard:**

A simple, intuitive dashboard gives store managers a clear view of at-risk inventory, suggested pricing changes, and real-time impact on waste and revenue.



IMPACT FOR WALMART

Environmental Benefits

- Reduces packaging and product waste via AI-driven eco-recommendations
- Contributes to Walmart's Project Gigaton (cutting emissions & plastic)

Business & Customer Value

- Boosts sales of eco-labeled and high-margin sustainable products
- Builds trust with environmentally aware shoppers
- Enhances brand loyalty through purpose-driven shopping experience

THANK YOU

