



Smart Sustainable Shopping Assistant

AI-powered food planning that turns grocery waste into measurable savings

The Problem We're Solving

\$1.8K

Annual Waste Per Household

Average U.S. family throws away nearly two thousand dollars in food every year

\$1T

Global Food Waste

Worldwide economic impact of discarded groceries reaches one trillion dollars

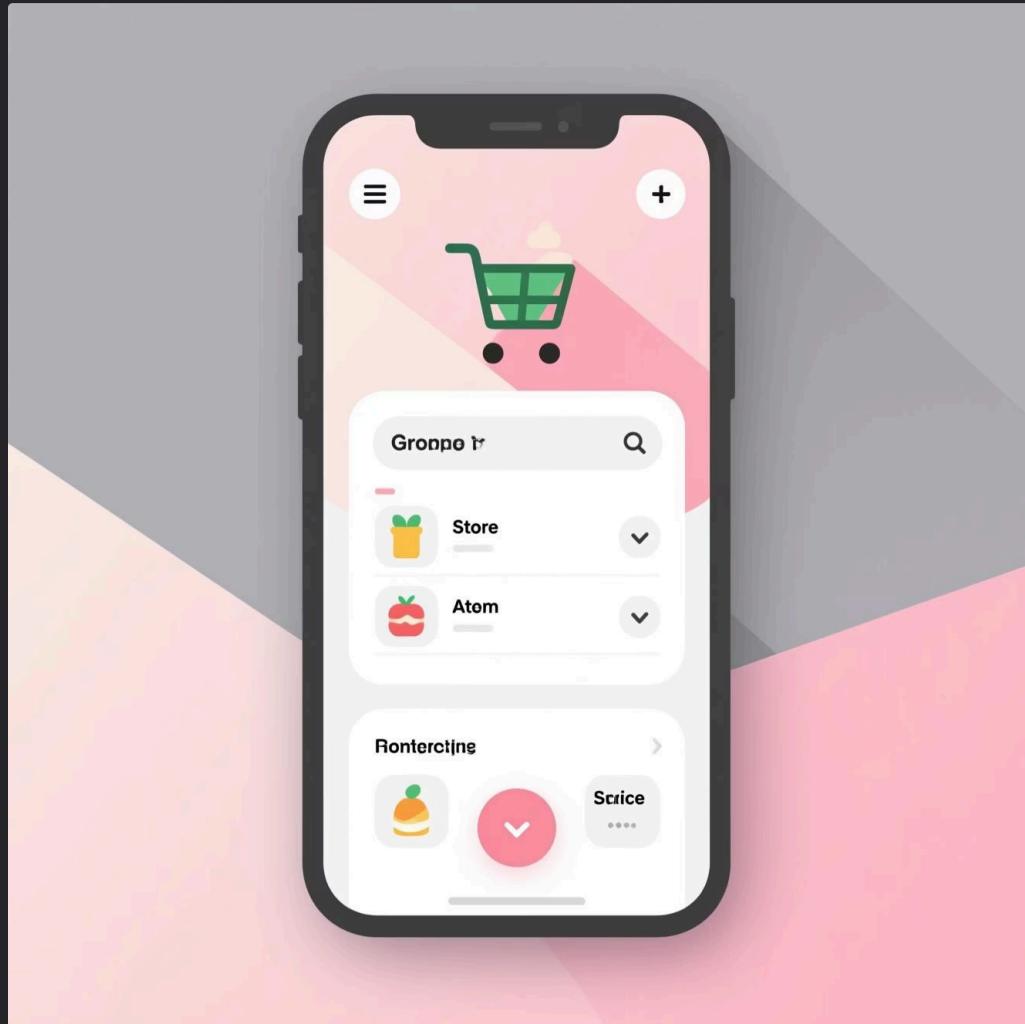
40%

Avoidable Waste

Nearly half of household food waste could be prevented with better planning

Every week, households struggle with the same challenge: buying too much, forgetting what they have, and watching fresh food spoil. It's not just money down the drain—it's a sustainability crisis affecting communities worldwide.

Our Solution: Intelligence Meets Simplicity



A Complete Food-Planning Suite

Smart Shopping Tracker makes managing your groceries effortless with its intuitive, user-friendly interface. Our app features a dynamic home screen showcasing monthly statistics on your savings, waste reduction, and spending habits. Core capabilities include one-click grocery logging simply by taking photos of your receipts and smart waste warnings to prevent spoilage, ensuring you make smarter choices and keep food fresh.

Three AI Models Working in Harmony



ResNet-18 Image Recognition

Snap a photo of your groceries and our computer vision instantly identifies produce items, automatically building your shopping list and inventory without manual typing.



Multi-Output LSTM Forecasting

Trained on weekly consumption data, our deep learning model predicts demand for staples like tomatoes, potatoes, and carrots—ensuring you buy exactly what you'll actually use.



Cloud-Powered Suggestion Engine

Every Sunday, our AI reviews your past two weeks, seasonal trends, and forecasts using cloud processing to deliver one calm, actionable tip in real-time, accessible from any device.



How It Works in Your Daily Life

1

Shop & Capture

Take photos or use images to instantly add groceries with one click.

2

Track & Monitor

Log waste amounts anytime, get smart warnings before food spoils, manage shopping lists.

3

Analyze & Learn

View monthly statistics (savings, waste, spending), see most bought items and top savings on home screen.

4

Plan & Save

Receive AI-powered weekly suggestions in friendly tone, access detailed insights with item-based weekly/monthly statistics.

Key Features at a Glance



Home Dashboard

Monthly savings, waste, and spending statistics



One-Click Logging

Photo capture for instant grocery tracking



Smart Warnings

Alerts before risky amounts



Shopping Lists

Manage and execute your grocery plans



History Tracking

Complete record of all purchases and waste



Insights Section

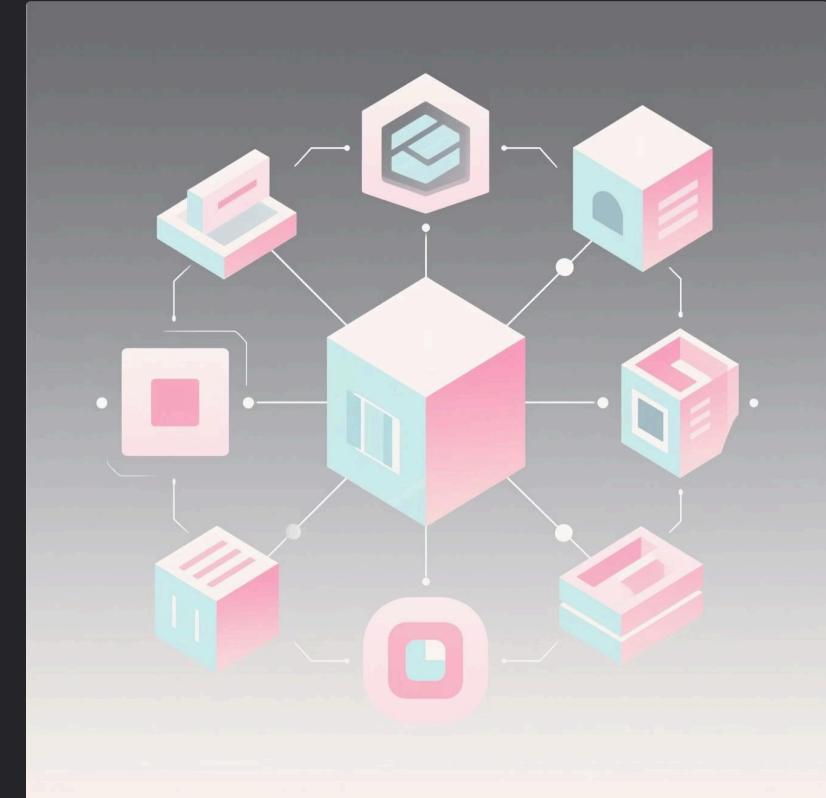
Item-based weekly/monthly analytics

Built for Performance & Privacy

Technical Architecture That Scales

- **FastAPI backend:** High-performance, async-ready server handling real-time data processing and model inference
- **TypeScript frontend:** Type-safe, responsive interface that works seamlessly across web and mobile platforms
- **Cloud-powered AI models:** Secure, scalable processing in the cloud enables advanced insights and real-time inference.
- **Real-time cloud sync:** Instantaneous data synchronization across devices ensures always up-to-date information and seamless experience.

Every architectural choice prioritizes speed, security, and user experience—from cloud sync to secure cloud data storage.



Impact Beyond the Individual

Local Markets

Anonymized data helps neighborhood stores optimize inventory and reduce spoilage by matching supply with real demand patterns.

City Planning

Municipal governments gain insights into consumption trends to inform waste reduction programs and resource allocation strategies.

Supply Chains

Aggregate insights enable distributors to forecast more accurately, reducing waste from farm to table across entire regions.

- Aligned with UN Sustainable Development Goal 12:** Responsible Consumption and Production. Our platform contributes measurable progress toward global sustainability targets.

Join Us in Reducing Waste, One Household at a Time

For Users

Start saving money and reducing waste with intelligent, personalized shopping guidance that adapts to your lifestyle.

For Partners

Leverage our anonymized insights to optimize operations, support sustainability initiatives, and serve communities better.

For Investors

Back a scalable, mission-driven solution addressing a trillion-dollar problem with proven AI technology and clear social impact.

Smart Shopping Tracker transforms routine grocery shopping into measurable savings and meaningful environmental action. Let's close the loop between kitchen habits and smarter consumption—together.

Get Started Today

Get in Touch



Email

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LinkedIn

linkedin.com/in/girunlu/



GitHub

github.com/girunlu

We're excited to connect and explore how Smart Shopping Tracker can benefit you or your organization. Reach out through any of the channels above, and our team will get back to you promptly.