Slide 1: Title

Affordable Nutrition Planner: Empowering Zero Hunger in Kenya



An AI-powered tool for affordable, nutrient-rich meals

- By: [Your Name]
- Bootcamp Final Project: September 2025
- Mission: Support SDG 2 by reducing malnutrition
 Kenyan Market

Slide 2: The Problem

Hunger & Malnutrition in Kenya 😌

• **Challenge**: 10M+ Kenyans face food insecurity; 26% of children under 5 malnourished (KNBS, 2025).

• Barriers:

- Tight budgets (<KES 300/day for many).
- Hard to plan nutritious meals with pantry foods.
- Few accessible tools for low-income households.
- Impact: Poor nutrition harms health & growth.

Slide 3: The Solution

Affordable Nutrition Planner *

- What: Web app using AI to optimize meal plans.
- How:
 - Users input owned foods & budget.
 - Al ensures key nutrients (calories, protein, etc.).
 - Suggests Kenyan recipes (e.g., ugali na sukuma wiki).
- **Why**: Free, mobile-friendly, hosted publicly. App Interface

Slide 4: Features

What Makes It Unique 🔭

- Custom Input: Add owned foods (e.g., Maize Flour, 1 kg).
- S Dynamic Prices: Scrapes Naivas.online prices.
- * Preferences: Vegetarian, allergy exclusions (e.g., peanuts).
- **Wisualization**: Nutrient contribution chart.
- Recipes: Kenyan dishes like ugali na sukuma wiki.

Slide 5: Technical Highlights

Built with Cutting-Edge Tech

- Python: Scalable core logic.
- PuLP: Al-driven optimization (linear programming).
- Streamlit: User-friendly web Ul.
- Pandas: Data processing for foods/nutrients.
- APIs/Scraping: Naivas for prices, USDA for nutrients.
- **Deployed**: Free on Streamlit Community Cloud.

Slide 6: SDG 2 Impact

Advancing Zero Hunger 🍣

- Affordability: Plans for budgets as low as KES 300/day.
- Sustainability: Uses owned foods to reduce waste.
- Accessibility: Public app for community access.
- W Nutrition: Meets needs (2500 kcal, 50g protein).
- **Cultural Fit**: Features Kenyan staples & recipes.

Slide 7: Demo

See It in Action 🚀

- **Live URL**: [Insert your Streamlit URL, e.g., https://nutrition-app.streamlit.app]
- Scenario:
 - Input: Budget KES 300, owned Maize Flour (1 kg), exclude peanuts.
 - o Output: Diet plan, nutrient chart, ugali na sukuma wiki recipe.
- **Try It**: Add custom foods (e.g., Apples)! App Screenshot

Slide 8: Challenges & Learnings

My Bootcamp Journey 듣

- Challenges Overcome:
 - Mastered PuLP for optimization.
 - Handled scraping errors with fallbacks.
 - Debugged Streamlit deployment (requirements.txt).
- Skills Gained: Python, APIs, web dev, git.
- Impact: Built a real-world tool in weeks!

Slide 9: Future Enhancements

Scaling the Vision 👱

- More Recipes: Add githeri, ndengu curry.
- Mobile UX: Optimize for rural smartphone users.
- **Sustainability**: Add carbon footprint metrics.
- III Local Data: Partner with Kenyan markets for accuracy.
- Outreach: Deploy in schools & clinics via QR codes.

Slide 10: Call to Action

Join the Fight Against Hunger 🙌

- For Bootcamp: Showcases my coding & impact passion.
- For Communities: Free tool for Kenyan households—share it!
- Feedback: Try the app, suggest features.
- Next Steps: Expand to health & sustainability SDGs.
- Contact: [Your Email or GitHub]
- **Live Demo**: [Your Streamlit URL] Kenyan Market