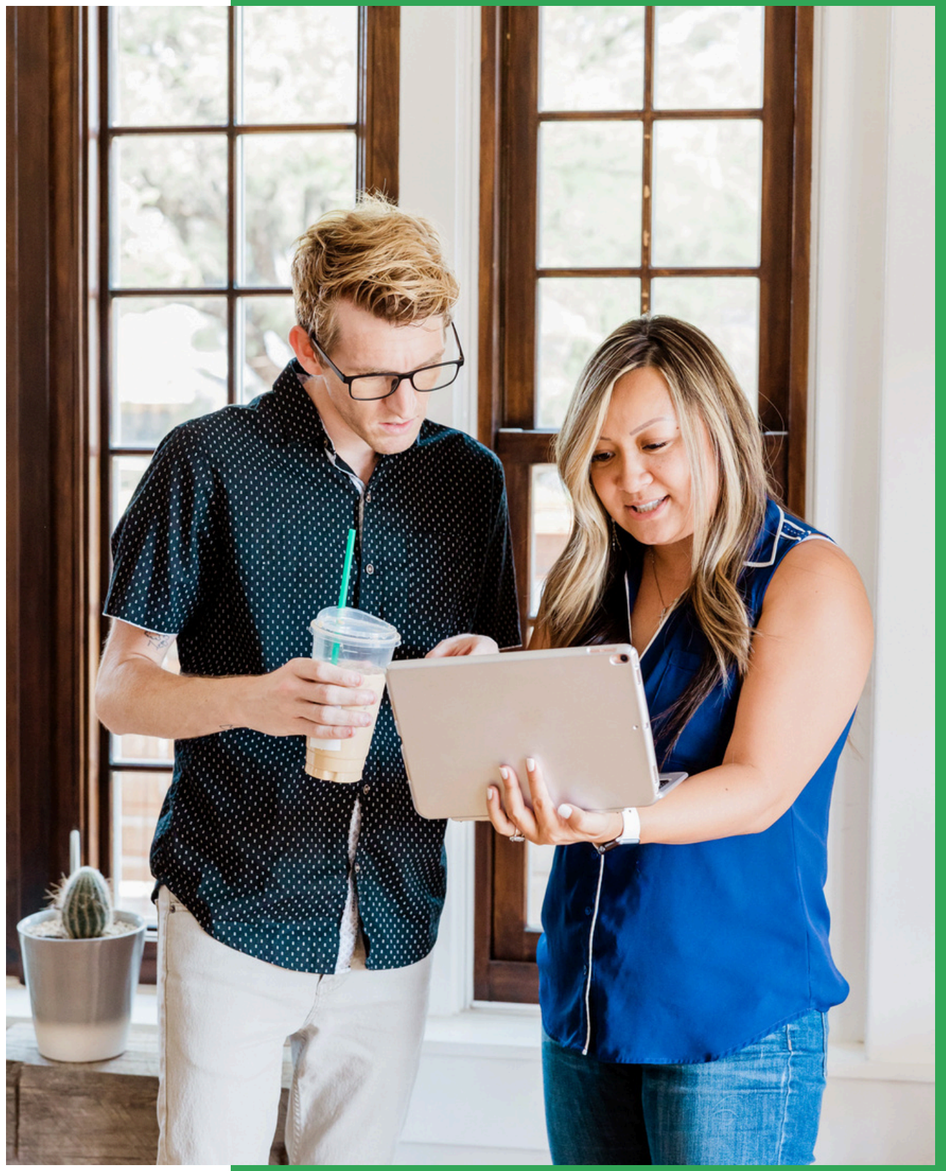
AgriPredict AI

"*Smart Farming Solutions for Sustainable Agriculture*"

By Group 5

Problem Statement

1. Smallholder farmers face unpredictable yields due to climate volatility.
2. Limited access to data hinders timely decisions on planting, harvesting, and crop selection.
3. Poor access to real-time weather, pest alerts, and soil quality insights.
4. Traditional methods offer little support for modern farm analytics and AI-based insights.



Solution

AgriPredict AI empowers farmers with:

1. 🌾 AI-Powered Crop Yield Prediction
Forecast yields based on farm inputs like weather, soil, and crop data.

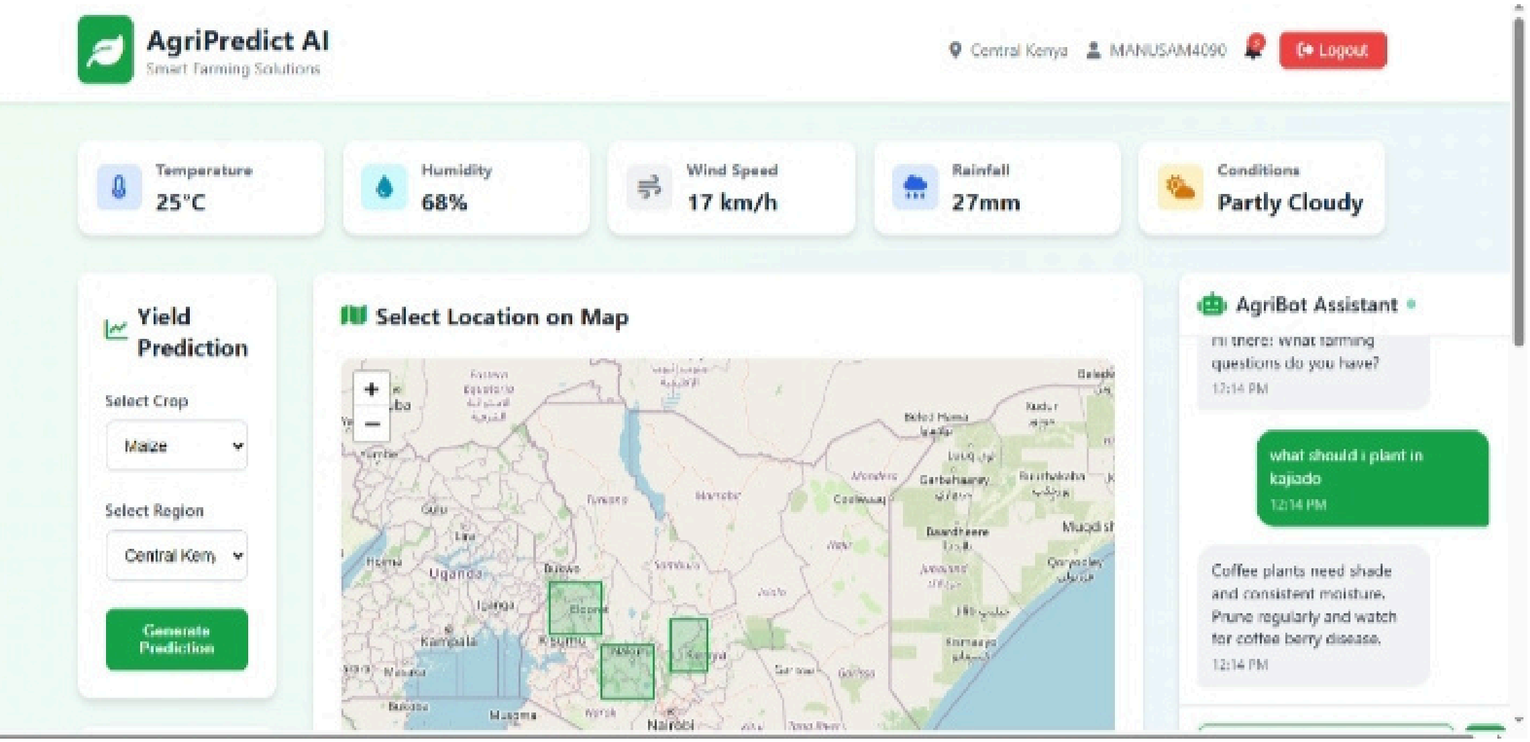
2. 🌦️ Weather Monitoring Dashboard
Real-time local weather insights to optimize farm activities.

3. 🗺️ Interactive Farm Map
GPS-based map to visualize field data and access region-specific insights.

4. 🤖 AI Chatbot Assistant
Smart assistant to guide on best practices and troubleshoot problems.

5. 📊 Farm Analytics & Visualization
Interactive charts showing trends in yield, rainfall, and more.

Product



Platform: Web App
Features:

- Crop yield predictor using custom AI models
- Weather and alert dashboard
- Location-based map insights
- Integrated chatbot
- Automated data profiling
- Responsive design for field or office use

Target Market

Primary: Smallholder farmers in East Africa

Secondary: Agribusinesses, cooperatives, NGOs

Tertiary: Government and research institutions

Market Size

- TAM: $40B African agriculture sector
- SAM: $3B agri-tech solutions segment
- SOM (3-year goal): $15–20M reach in smart farm support tools
- Agri-tech in Africa growing at 15%+ annually

Competitors

1. Twiga Foods – Urban food logistics, no AI-based predictions
2. iProcure – Focuses on agro-input supply chain
3. FarmDrive – Offers credit scoring, lacks predictive analytic

AgriPredict AI's Edge:
Combines real-time weather, AI yield forecasts, and decision support into a full-stack platform for rural farmers.

Competitive Advantage

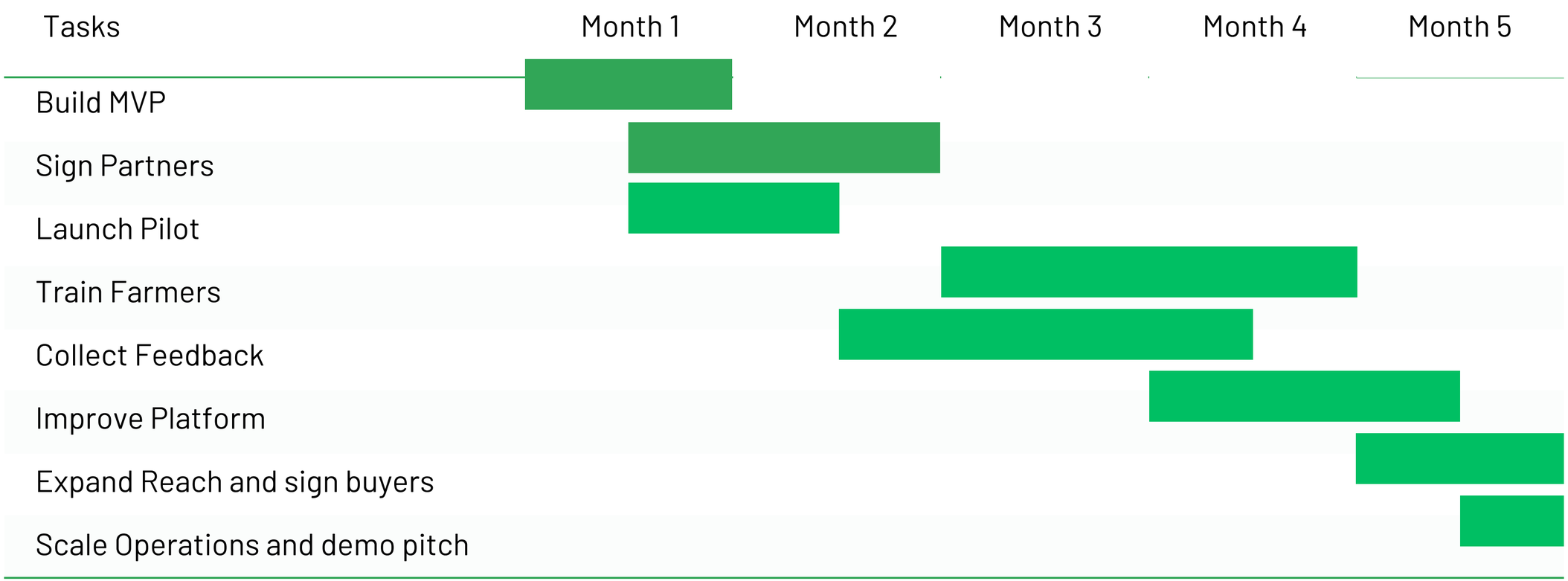
All-in-one platform: Weather, yields, analytics, and advisory

Localized and accessible (web/mobile)

Backed by machine learning models and real farm data

First-of-its-kind AI-integrated dashboard for farmers in underserved areas

Project Traction



Business Model

Freemium Access: Free dashboard + paid advanced AI tools

Subscription Plans: For agribusinesses and cooperatives

Data-as-a-Service: API for research institutions and gov’t

Goal: 30–35% profit margin by Year 2

Go To Market

- Partner with agri-NGOs and SACCOs for outreach
- Leverage radio + SMS campaigns in rural areas
- Initial pilot in Kisii → scale to 3+ counties in 6 months
- Use AI success stories to drive adoption

Social Impact

Aligned with these UN Sustainable Development Goals:

SDG 2: Zero Hunger

SDG 1: No Poverty

SDG 13: Climate Action

SDG 9: Industry, Innovation & Infrastructure

SDG 12: Responsible Consumption & Production

Our Ask

💰 Seeking $75,000 in seed funding

Use of Funds:

- 40% – AI model & platform development
- 30% – Farmer onboarding + training
- 20% – Outreach & marketing
- 10% – Compliance and legal setup

Team Members

EMMANUEL

Project Manager & AI Integration

ENOCK

Frontend Developer

JECINTA

Backend Developer

SIDNEY

Backend Developer & AI Integration

Thank you!

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