AgriTech

AI powered platform revolutionaizing agriculture by solving every problem from seed to harvest & beyond.

AgriTech

⚙ Light | About | Login | **Register**

Empowering Agriculture Through Technology

AgriTech connects **Farmers**, **Buyers**, **Equipment Suppliers**, and **Grocery Sellers** to revolutionize India's agricultural ecosystem with smart solutions and seamless collaboration.

Our Platform Benefits

SignUp

Register easily and personalize your AgriTech experience.

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Join AgriTech

Create your account to get started

Select Your Role

Select Your Role
🛒 Buyer
🚜 Farmer
🔧 Equipment Shopkeeper
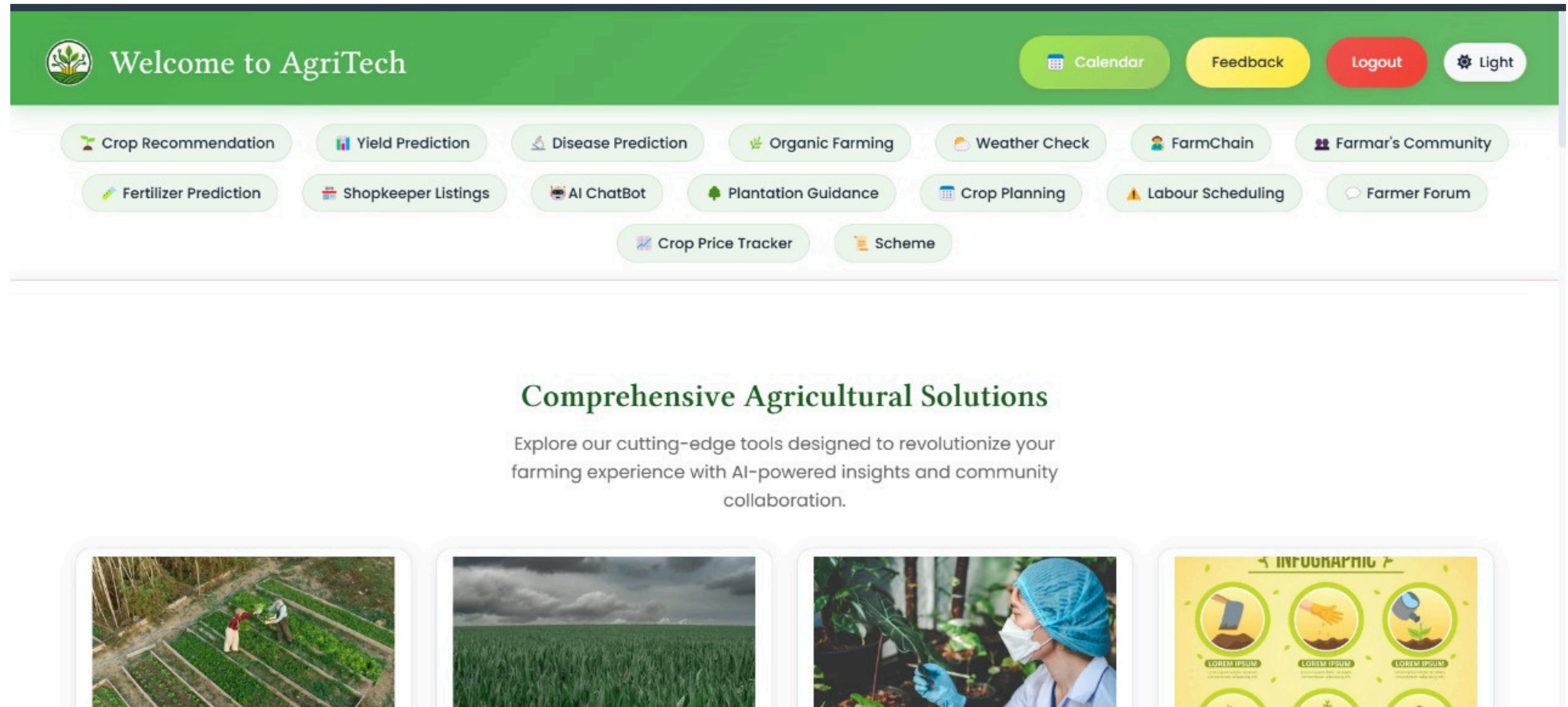🏪 Grocery Shopkeeper

🔒 Create a strong password

Create Account

Already have an account? **Sign In**

Home Page

Your all-in-one hub for smart and sustainable farming solutions.

Welcome to AgriTech

📅 Calendar   Feedback   Logout   ⚙ Light

🌱 Crop Recommendation   📊 Yield Prediction   📉 Disease Prediction   🌿 Organic Farming   ☁ Weather Check   👨‍🌾 FarmChain   👥 Farmar's Community

💉 Fertilizer Prediction   🏫 Shopkeeper Listings   🤖 AI ChatBot   🌳 Plantation Guidance   📅 Crop Planning   ⚠ Labour Scheduling   💬 Farmer Forum

📈 Crop Price Tracker   📜 Scheme

Comprehensive Agricultural Solutions

Explore our cutting-edge tools designed to revolutionize your farming experience with AI-powered insights and community collaboration.

INFOGRAPHIC

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Crop Recommendation and Yield Prediction

Crop Recommendation System

90
42
43
26
80
6.5
200

Predict Crop

Back

Recommended Crop

rice

Try Again

Crop Yield Prediction

Crop:
Onion

Crop Year:
2025

Season:
Rabi

State:
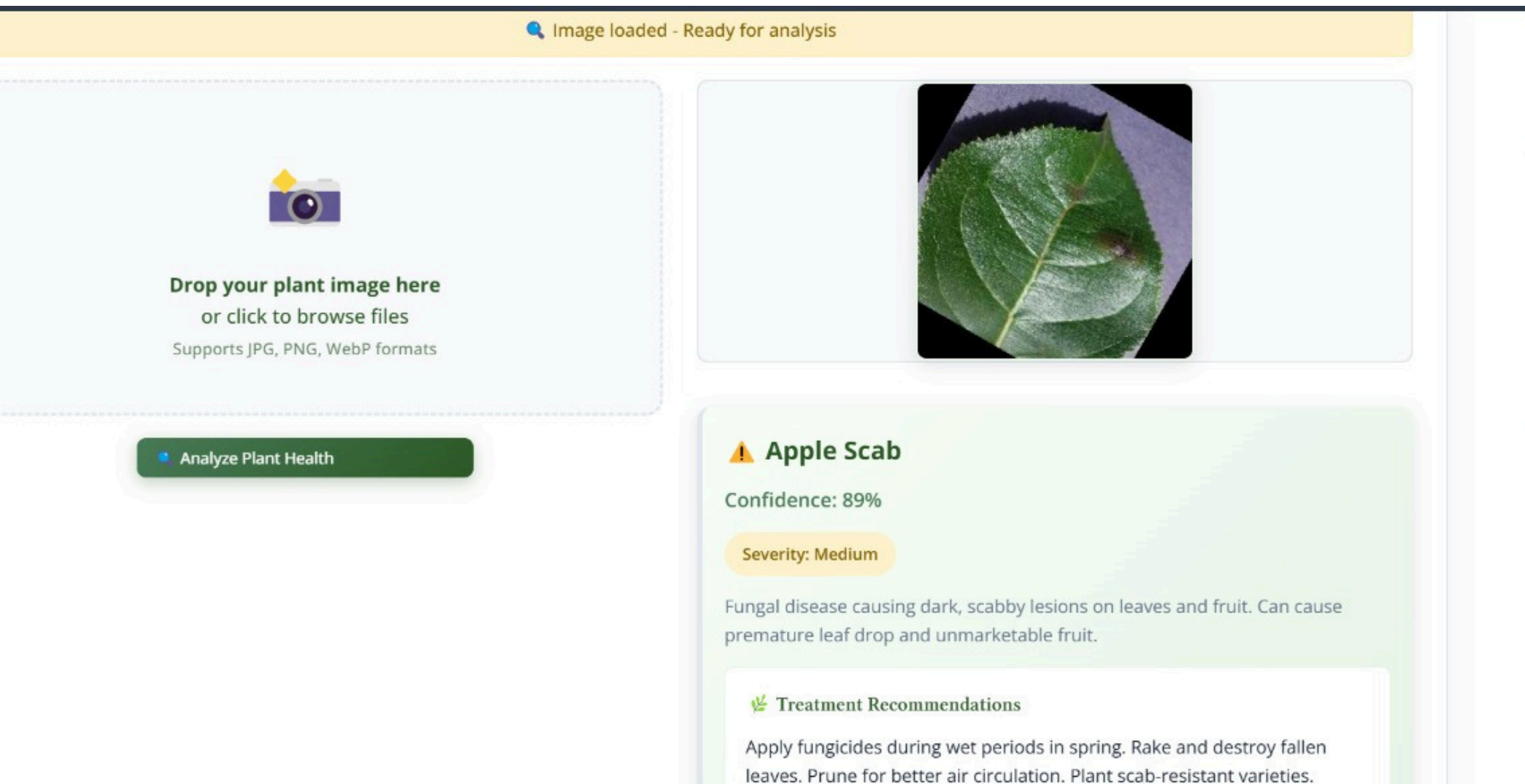Maharashtra

Area (hectares):
100

Annual Rainfall (mm):
850

Production (tonnes):
3000

Predicted Yield: 2.868563 tonnes per hectare

Get AI-driven crop suggestions and accurate yield forecasts for better planning.

Disease Prediction and Organic Farming

🔍 Image loaded - Ready for analysis

📷

Drop your plant image here
or click to browse files
Supports JPG, PNG, WebP formats

🔬 Analyze Plant Health

⚠️ **Apple Scab**

Confidence: 89%

Severity: Medium

Fungal disease causing dark, scabby lesions on leaves and fruit. Can cause premature leaf drop and unmarketable fruit.

🌱 **Treatment Recommendations**

Apply fungicides during wet periods in spring. Rake and destroy fallen leaves. Prune for better air circulation. Plant scab-resistant varieties.

Disease prediction helps farmers by providing a tool to proactively identify plant diseases early, allowing them to take timely action and prevent crop failure.

🌿 **Organic Farming Excellence**

Discover sustainable agricultural practices that enhance soil health, preserve ecosystems, and produce premium quality crops through time-tested organic methods.

Organic farming serves as a guide for farmers, offering eco-friendly methods and techniques to sustainably cultivate crops while preserving soil health and biodiversity.

🌿 **Principles of Organic Farming**

✓ **Ecology** : Work harmoniously with living systems and natural nutrient cycles

✓ **Health** : Sustain soil vitality, ecosystem balance, climate stability, and human well-being

✓ **Fairness** : Foster equitable relationships between people and the environment

Weather Check and Farm Chain
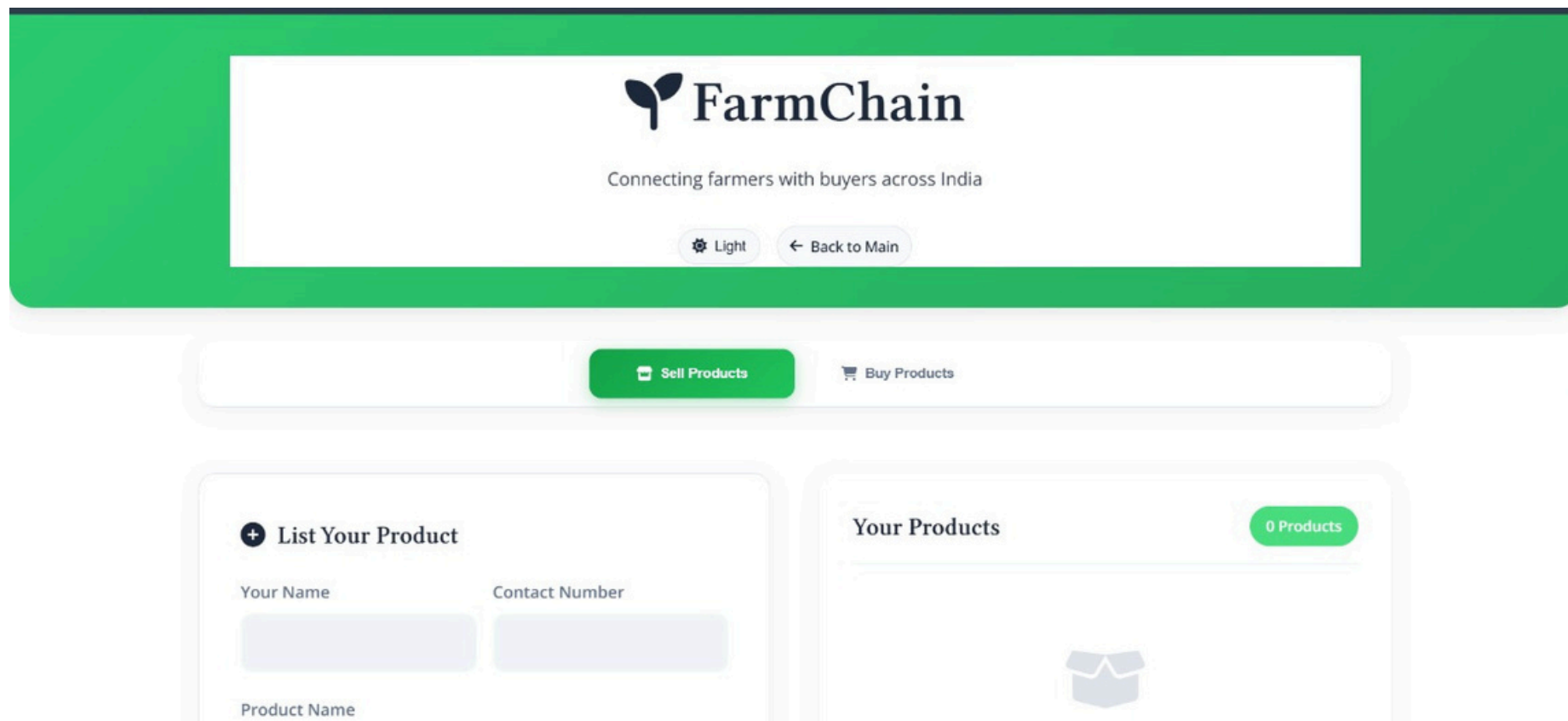
FarmChain provides a direct-to-consumer platform connecting buyers and farmers, cutting out middlemen to ensure transparency and fairer prices.

Weather feature offers upcoming forecasts, enabling farmers to optimize their planting and crop planning.
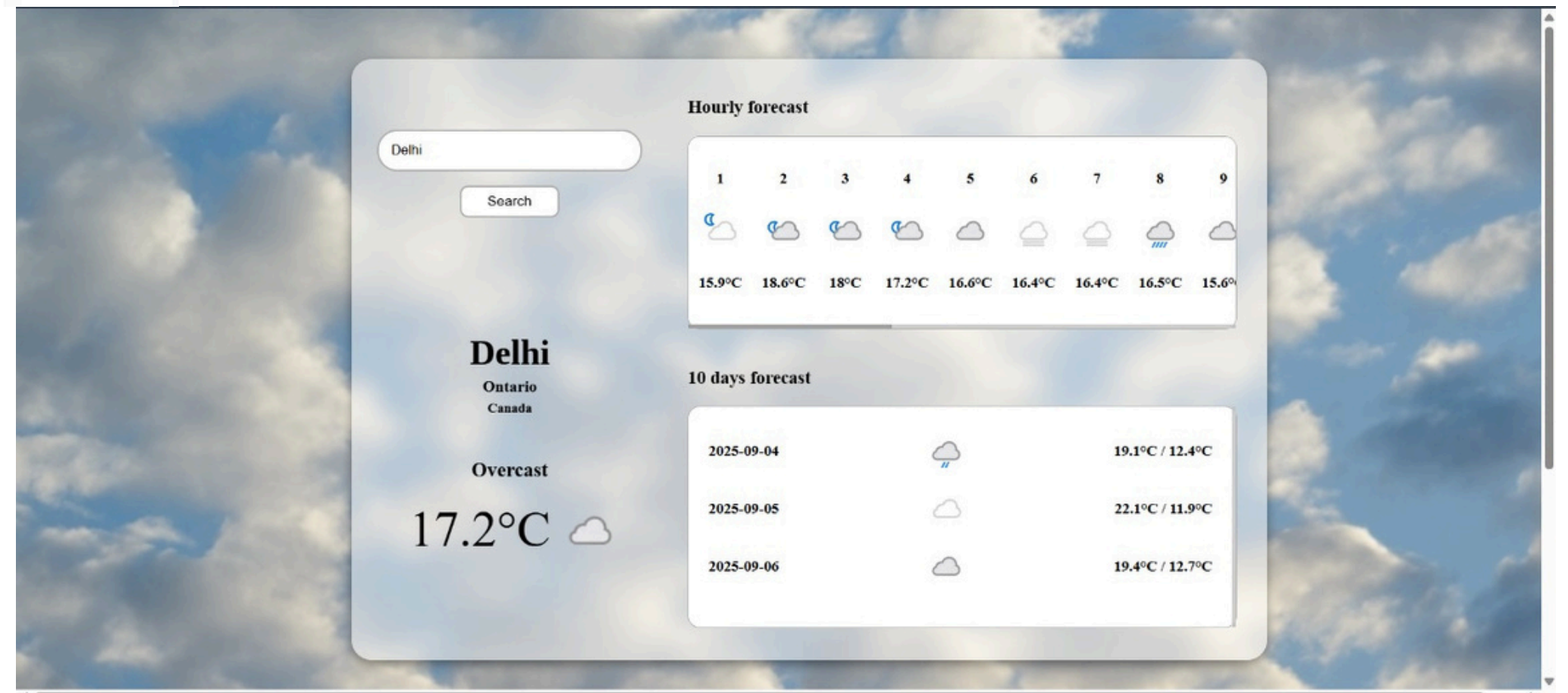
Community and Fertilizer Recommendation

Agritech Farmer Community Chat

Leave Community

Delete This Community

Community: Madhya Pradesh

omroy_2005 joined Madhya Pradesh

Type your message...

Send

Community feature allows farmers to connect and share knowledge with others in their local area and globally.

Fertilizer Recommendation System suggests the ideal fertilizers for your farm's specific needs, helping you grow crops more effectively.

🌽 **Fertilizer Recommendation System**

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Fill in the following information to get the most suitable fertilizer recommendation.

📋 **Environmental Conditions**

Temperature (°C):

Please fill out this field.

Humidity (%):

Moisture (%):

🌱 **Soil and Crop Details**

Soil Type:

Sandy

Crop Type:

Shopkeeper Listings and AgriTech Chatbot

Shopkeeper Listings

Your comprehensive guide to agricultural solutions across Punjab

⚙ Light   ← Back to Main

🔍 Search dealers, locations, or services...

CATEGORY: LOCATION: SORT BY:

All Categories   All Locations   Name (A-Z)   ↺ Reset

10 dealers found

🐛 Pesticide & Insecticide Sellers

Shopkeeper Listings connects you with local suppliers for all essential farming supplies, from equipment to fertilizers.

Chatbot is an AI assistant that gives farmers instant, on-demand answers to their questions about farming.

Back

Agritech Chatbot

Bot: Hello! Ask me about weather, crops, pests, or soil.

You: What is hydroponics?

Bot: Hydroponics is growing plants in nutrient-rich water without soil.

Type your message...   Send
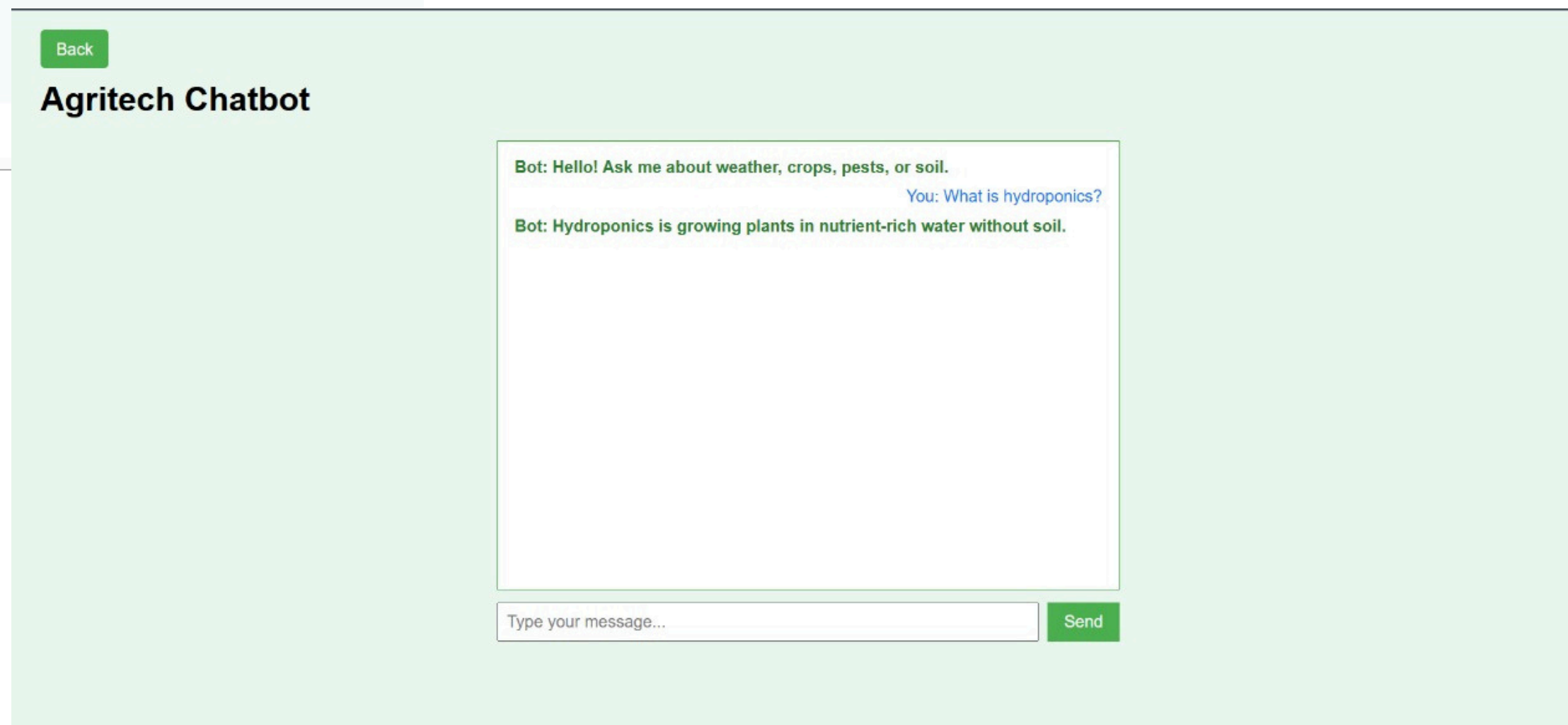
Plantation Guidance and Crop Planning

Research and Development

Selecting the right crops for cultivation is a critical step in agricultural planning. It involves analyzing various factors such as climate, soil characteristics, and market demand to ensure optimal yield and profitability.

1. Assessing Climate Conditions

Climate plays a pivotal role in determining which crops can thrive in a particular region. Key climatic factors to consider include:

- **Temperature Ranges:** Understanding the average temperatures helps in selecting crops that can withstand local heat or cold.
- **Rainfall Patterns:** Analyzing annual precipitation and its distribution is essential, especially for rain-fed agriculture.
- **Growing Season Length:** The duration between the last and first frost dates influences the types of crops that can be grown.

For instance, in regions like Vidarbha, Maharashtra, farmers are shifting from traditional crops like cotton and soybean to maize due to its higher yield and better market prices, despite challenges like wildlife intrusion.

2. Analyzing Soil Characteristics

Soil health is fundamental to crop productivity. Key soil factors include:

- **Soil Type:** Sandy, loamy, or clay soils have different water retention and nutrient profiles.
- **pH Levels:** Certain crops require specific pH ranges for optimal nutrient uptake.

Plantation Guidance offers expert advice on planting techniques and a step-by-step farming guide, helping farmers ensure a successful harvest.

Crop Planner AI provides intelligent recommendations for crop selection and planting schedules to help farmers maximize their yield and profit.

< Crop Planner AI ☀☾Light

🌿 Crop Planner AI

Enter your farm's details to get an AI-powered crop planner with comprehensive growing guidelines.

Soil pH	Temperature (°C)	Rainfall (mm)
e.g., 6.8	e.g., 28.5	e.g., 650

Soil Type	Season	Market Demand
Select soil type...	Select season...	Select demand level...

Fertilizer Used	Pest Issue	Irrigation Method
Select fertilizer...	Select pest status...	Select irrigation method...

GET FULL FARMING PLAN

Labour Scheduling and Farmer Forum

Labor Scheduling feature helps you manage your workforce by providing alerts for labor needs and connecting you with available workers.

Farmer Forum provides a direct communication channel for farmers to connect with the AgriTech admin team.
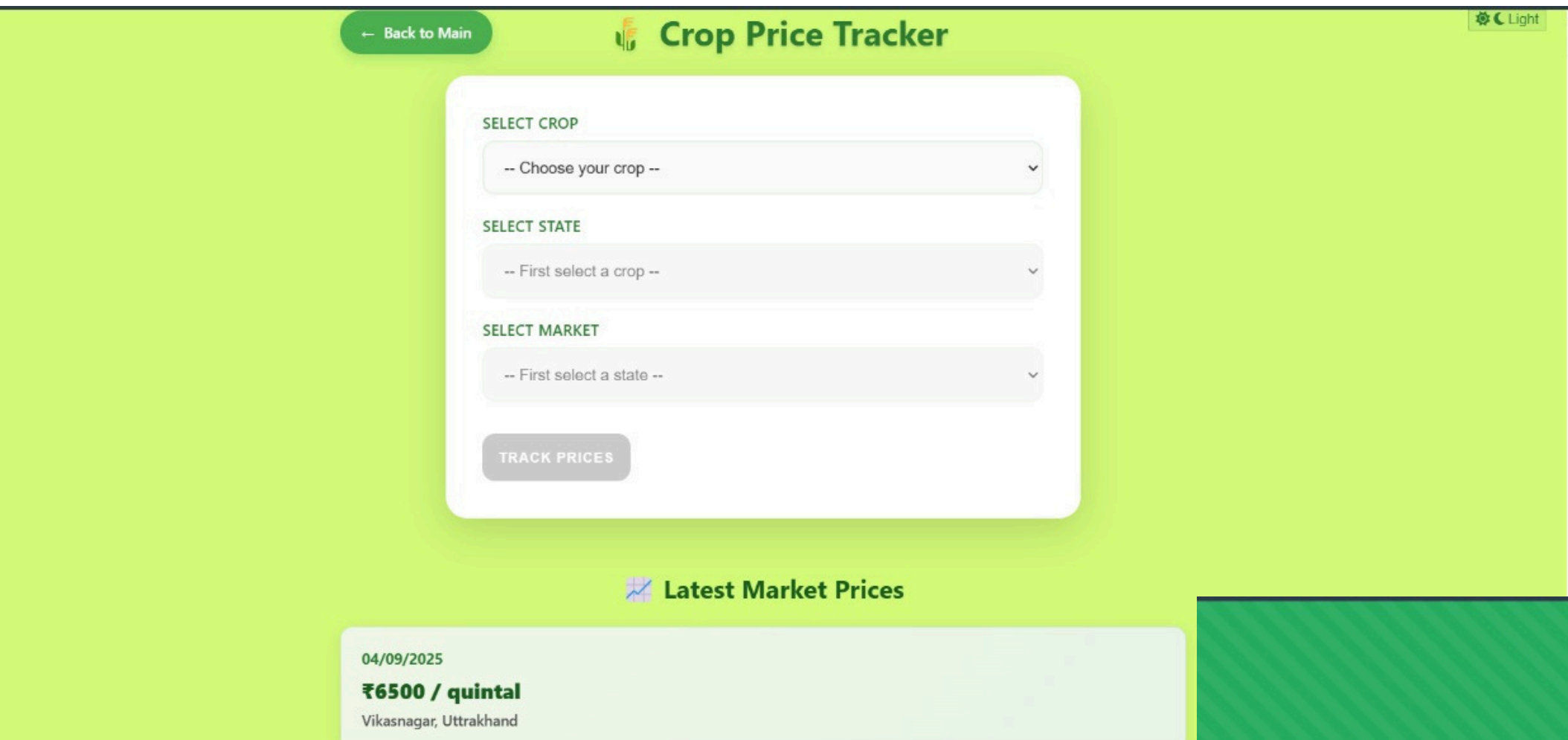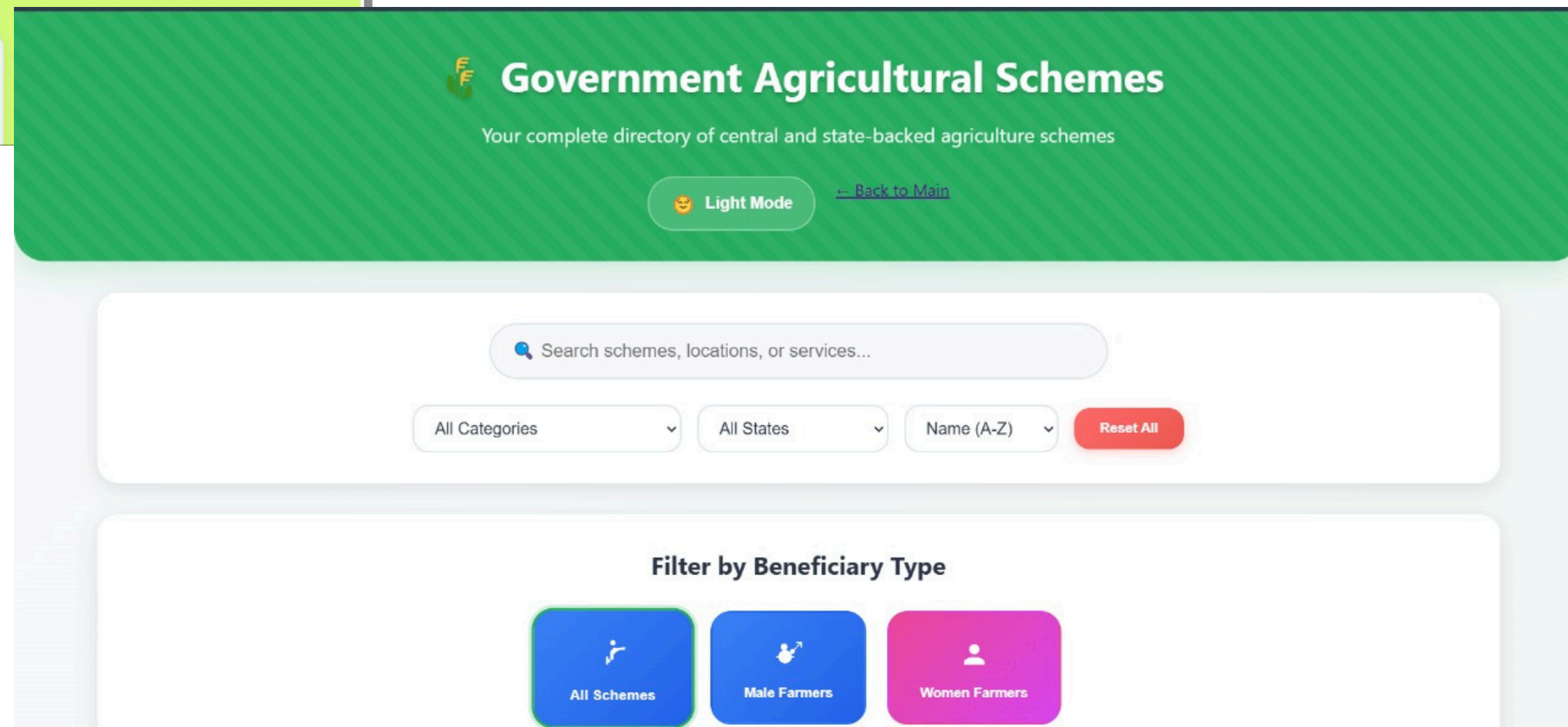
Crop Price Tracker and Schemes

Crop Price Tracker provides real-time market prices to help farmers decide when and where to sell to get the best profit

Schemes is a centralized hub where farmers can discover and access all relevant government-provided schemes, subsidies, and financial aid.

Loan Eligibility Predictor

Smart Loan Eligibility Checker for Farmers

Select the type of loan you want to apply for:

Crop Cultivation

Farm Equipment

Water Source Development

Land Purchase

Smart Loan Eligibility Checker
Get step-by-step assistance for applying for agricultural loans.

Go to Smart Loan Guide   **Language:** English

⚙ Light

Smart Loan Eligibility Guide

📋 **How to Apply (Step-by-Step)**

1. Select your loan type from the form below.
2. Enter your required loan amount, annual income, and years of farming experience.
3. Click "Check Eligibility" to get advice on your chances and required improvements.
4. Review the suggested government schemes and bank loan options.
5. Contact your nearest bank branch to start the application.

Loan Type

Select a loan type

Loan Amount (₹)

Annual Income (₹)

Loan Eligibility feature helps you determine your eligibility for various agricultural loans, making it easier to secure funding for crop cultivation, equipment, and land.

Future Enhancements

- Authentication System.
- Nationwide shopkeeper listings.
- Database Integration.
- Dataset expansion for crop recommendation, yield prediction, disease prediction

Challenges

- Gathering accurate, diverse and real-time data from across regions.
- Ensuring scalability, security and smooth deployment of AgriTech.
- Handling large volumes of user requests, especially during peak seasons.
- Bridging the digital divide and making AgriTech accessible for farmers.

Thank You