



Team Mauryas

SLIDE 1

# KrishiBal

KRISIBAL is an AI-powered agricultural intelligence platform that helps farmers make better decisions through smart crop recommendations, instant plant disease detection, and expert AI assistance.

It combines machine learning and modern web technology to improve productivity, reduce losses, and support sustainable farming.





# The Research

- Agriculture employs ~58% of India's workforce but contributes only ~18% to GDP (low productivity issue).
- Small farmers face challenges: lack of timely expert advice, crop diseases causing 20-40% yield loss annually.
- Pests and diseases cause Indian farmers to lose 15-30% of crops every year, worth billions of rupees (e.g., ~₹90,000 crore annually). Many small farmers rely on costly middlemen or guesswork for advice.
- Indian farmers face extreme distress: Over 10,000 farmer suicides annually (NCRB data: 10,881 in 2022, rising due to debt and crop failures) – a silent crisis driven by unpredictable yields and income.





## Customer Pain Points

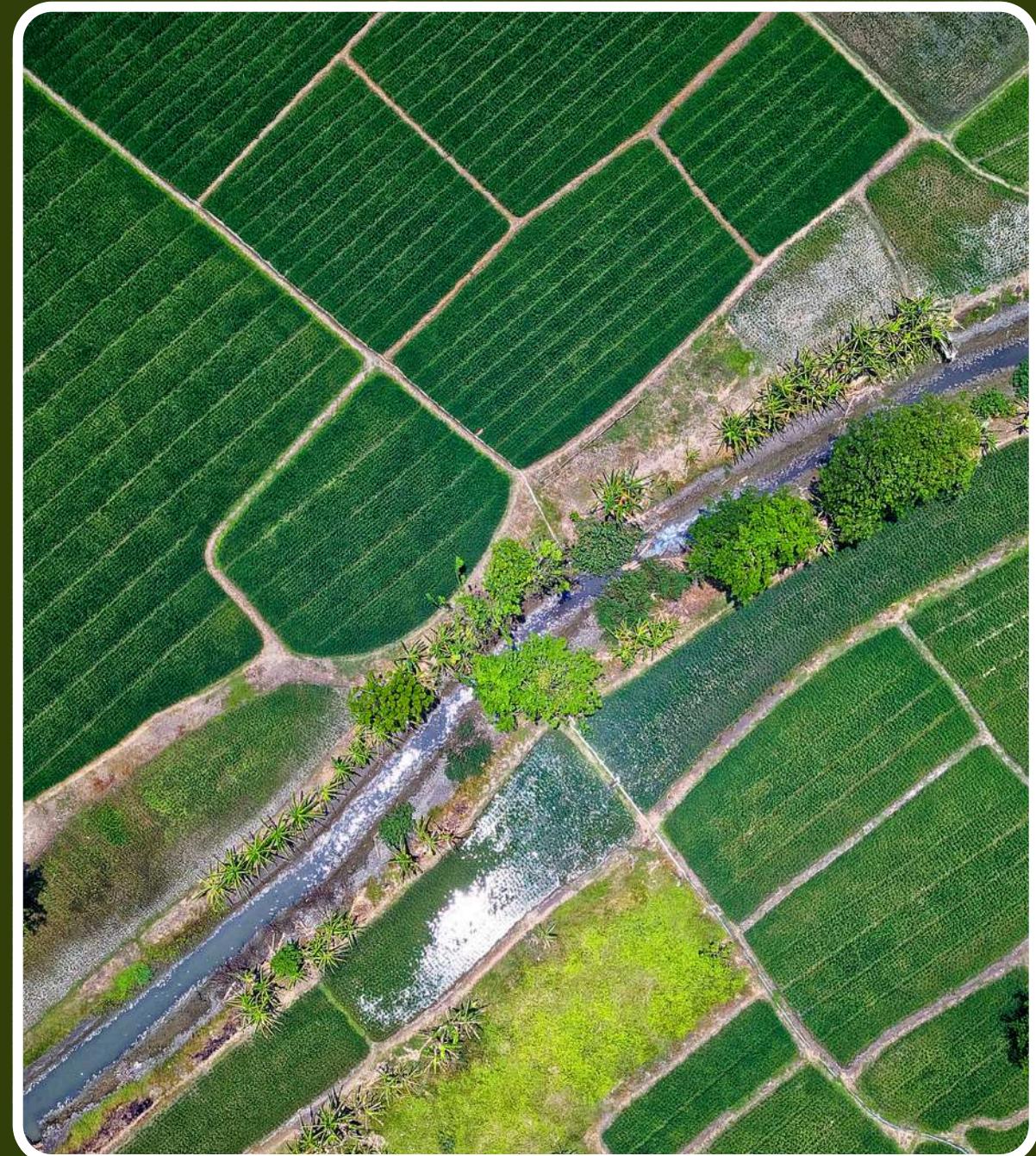
- No instant access to agricultural experts.
- Crop disease diagnosis is slow and inaccurate.
- Tough to get timely weather updates, loan info, or government schemes.
- Hard to buy quality seeds/inputs or sell directly to buyers – no reliable marketplace.
- Wrong crop choices for soil/climate lead to low quality and income.
- No personalized guidance from seeding to harvest – guesswork causes more losses.





## The Problem

- **Social inequality:** Rural-urban divide widens as uneducated farmers lack access to modern tools, leading to generational debt and migration to cities.
- **Environmental damage:** Over-reliance on chemicals from wrong advice pollutes soil/water, accelerating climate vulnerability for future generations.
- **Tech gap:** No unified AI platform exists for end-to-end support – from seed to sale – leaving farmers isolated in a \$400B+ industry ripe for disruption.
- **Language Barrier:** Most digital tools are only available in English, excluding many farmers.





Solution

SLIDES



# Let's Solve

KRISIBAL provides an integrated web-based agricultural intelligence solution that combines artificial intelligence, data analysis, and cloud technology to support farmers in decision-making. The platform enables users to interact with an AI assistant for farming-related queries, analyze crop diseases through image uploads, receive crop recommendations based on location and season, and access real-time weather information. By bringing these capabilities together within a unified system supported by a secure backend and cloud database, KRISIBAL replaces fragmented agricultural tools with a single, intelligent platform designed for practical agricultural use.



## What We Offer - Agricultural Intelligence

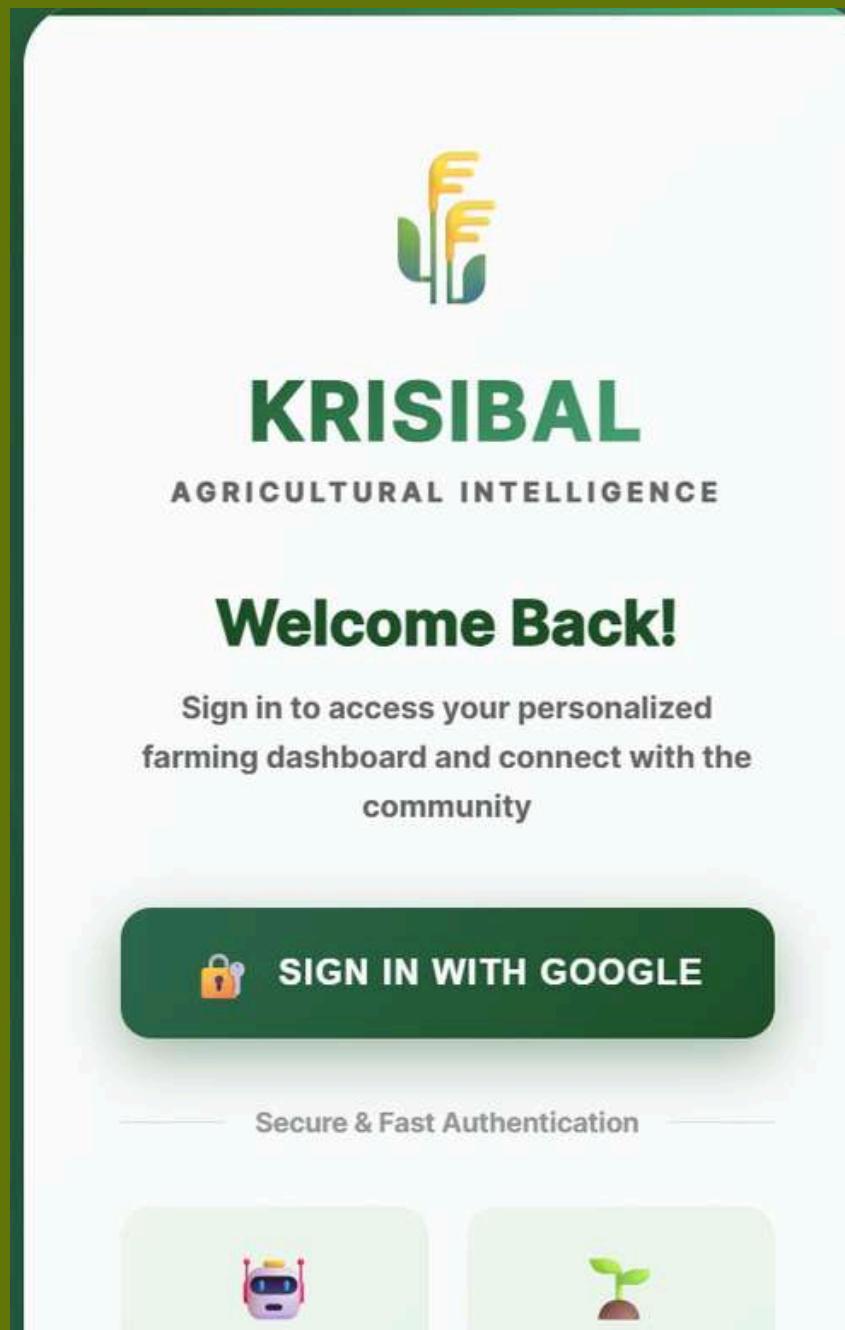


- AI Chatbot / Audiobot
- News And Govt. Schemes
- Crop Recommendation
- Disease Detection
- Built-in Marketplace
- Live Weather Update
- Yield Prediction
- Full Season Guidance



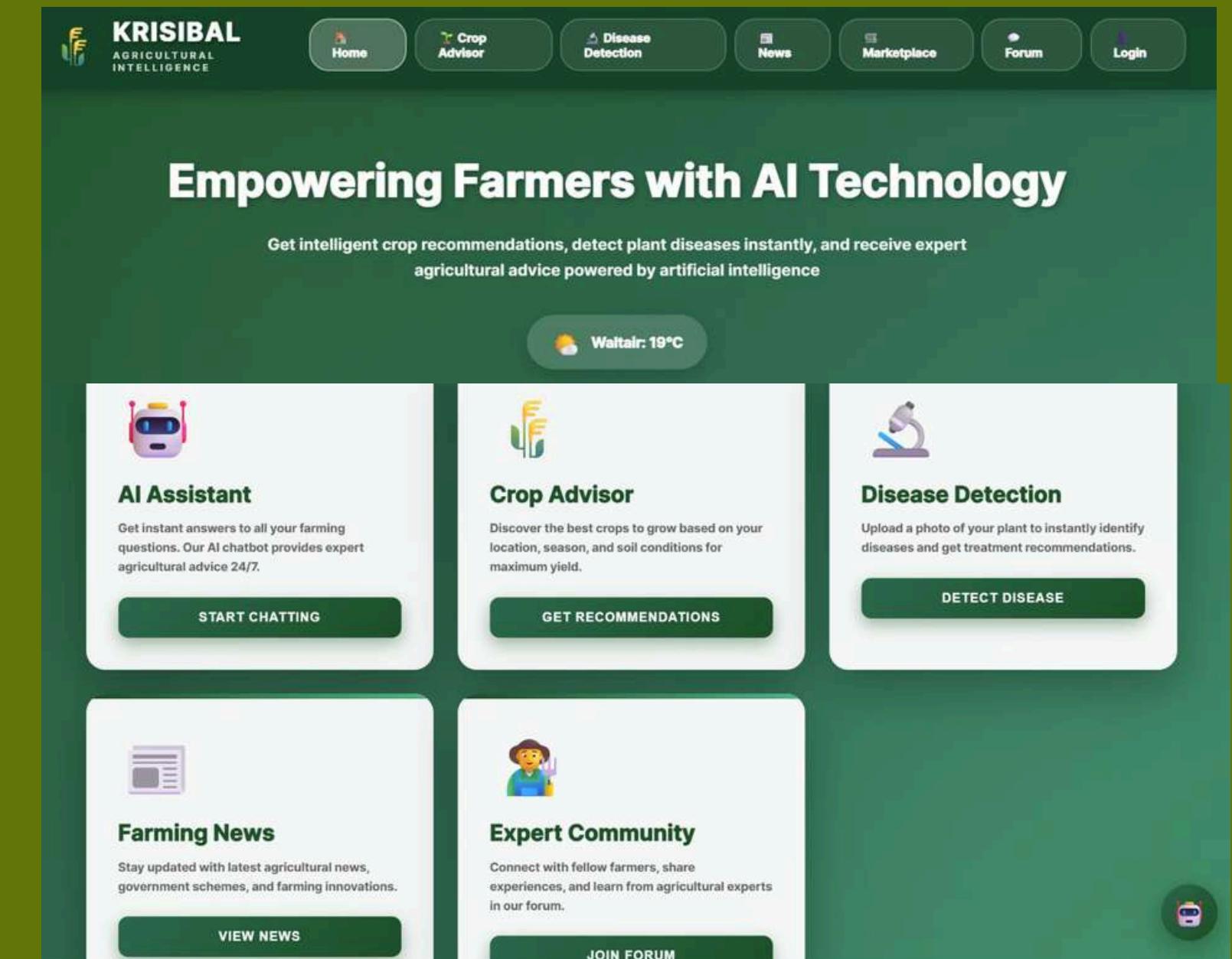
# Platform Preview

SLIDE 7



The screenshot shows the Krisibal login page. At the top is the Krisibal logo with the text "AGRICULTURAL INTELLIGENCE". Below it is a large green button with the text "Welcome Back!" and "SIGN IN WITH GOOGLE". Underneath the button, the text "Secure & Fast Authentication" is displayed. At the bottom of the page are two small icons: a robot head and a plant.

## Login page



The screenshot shows the Krisibal home page. At the top is the Krisibal logo with the text "AGRICULTURAL INTELLIGENCE". The main heading is "Empowering Farmers with AI Technology" followed by the subtext "Get intelligent crop recommendations, detect plant diseases instantly, and receive expert agricultural advice powered by artificial intelligence". A weather widget shows "Waltair: 19°C". Below the heading are four main service cards: "AI Assistant" (with a robot icon), "Crop Advisor" (with a plant icon), "Disease Detection" (with a microscope icon), and "Farming News" (with a newspaper icon). Each card has a corresponding green button at the bottom. To the right of the cards is a "Expert Community" section with a person icon and a "JOIN FORUM" button. The bottom right corner features a circular icon with a robot head.

## Home page



## Platform Preview

SLIDE 8

### Farming News & Schemes

Latest News    Govt Schemes

Search for specific topics or view latest agricultural news

SEARCH NEWS

e.g., wheat farming, government schemes

SEARCH

**Hatzidakis: €3.8 billion have been given to farmers in 2025 – They have no excuse not to come to the dialogue**

The Deputy Prime Minister responds to seven key questions and places the agricultural union leaders before their responsibilities. The post Hatzidakis: €3.8 billion have been given to farmers in 2025 – They have no excuse not to come to the dialogue appeared f...

Protothema.gr    1/2/2026

War and shadows that will fall on Ireland's EU presidency

## Farming News

### Disease Detector

Upload a clear photo of the affected plant leaves

UPLOAD PLANT IMAGE

Choose File potato-diseases.jpg

ANALYZE PLANT

**Disease: Potato - Early Blight**

**Treatment: Remove debris, rotate crops, and use protectant fungicides as recommended.**

## Disease Detector



## Platform Preview

SLIDE 9

**Crop Advisor**

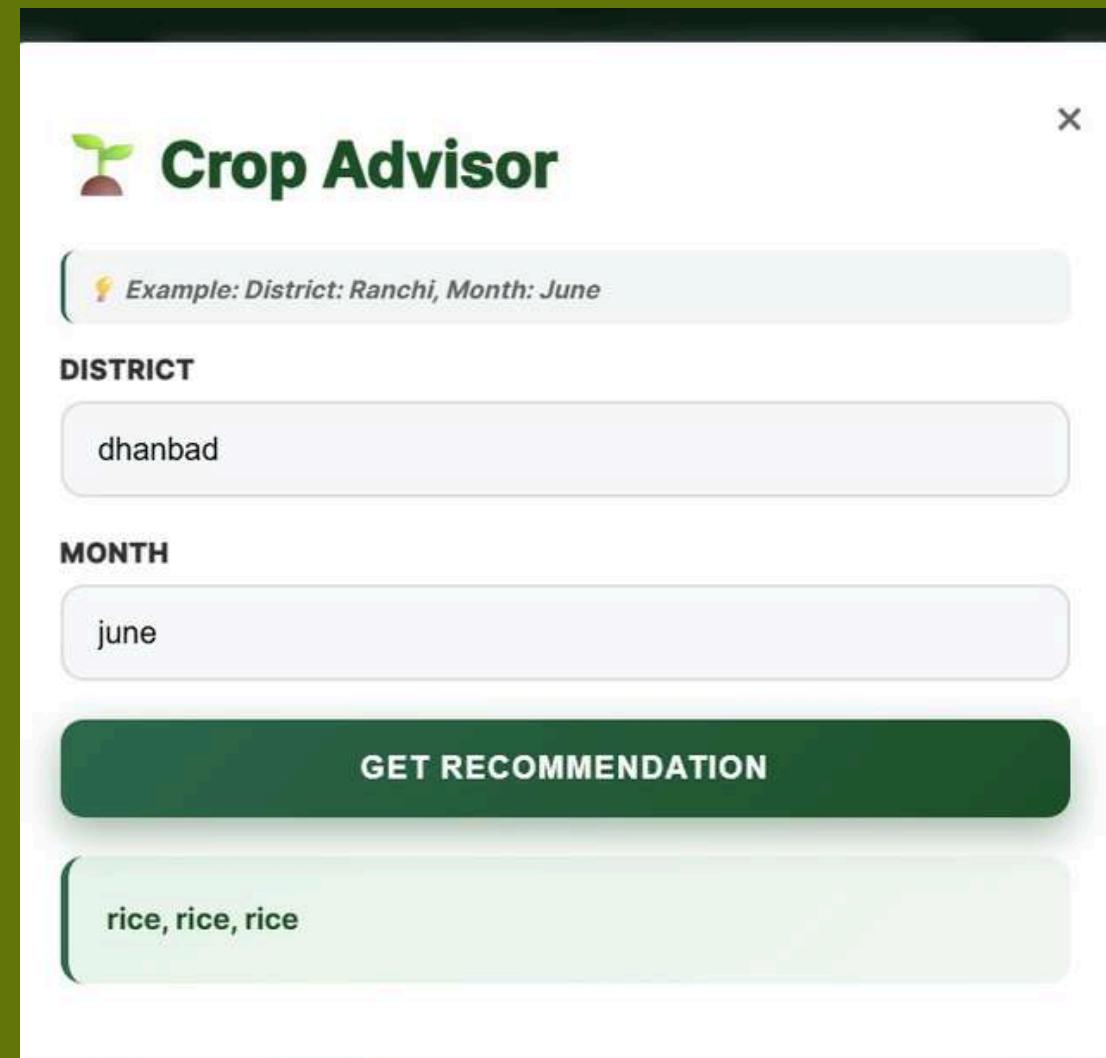
Example: District: Ranchi, Month: June

DISTRICT  
dhanbad

MONTH  
june

**GET RECOMMENDATION**

rice, rice, rice



**Farmer Marketplace**

Connect farmers directly with buyers - Fresh, Local, Sustainable

**List Your Product**

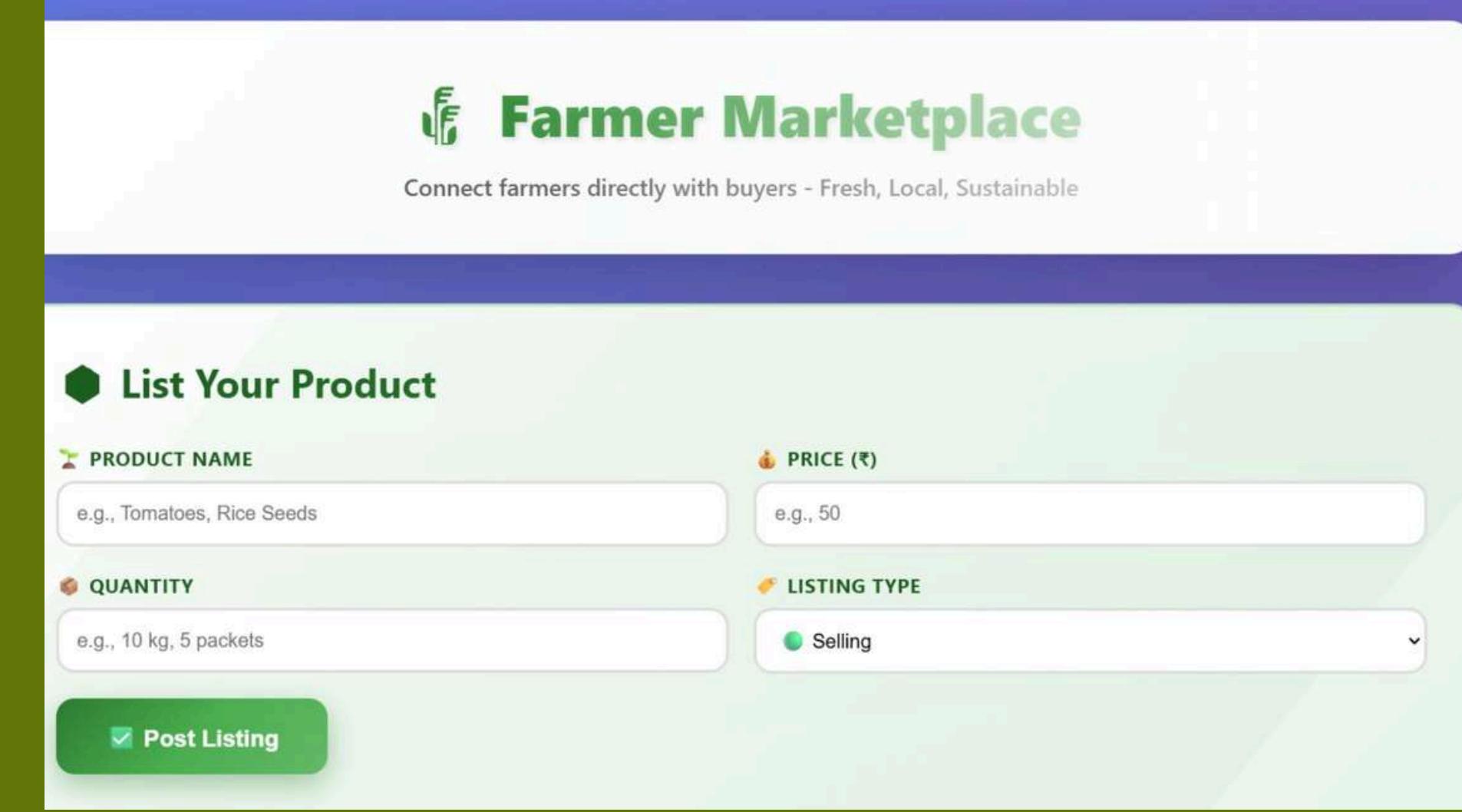
PRODUCT NAME  
e.g., Tomatoes, Rice Seeds

PRICE (₹)  
e.g., 50

QUANTITY  
e.g., 10 kg, 5 packets

LISTING TYPE  
Selling

Post Listing



# Crop Recommendation System

# Marketplace



# Platform Preview

SLIDE 10

The screenshot shows the Krisbal Agricultural Intelligence platform's forum section. At the top, there's a navigation bar with the Krisbal logo, a Home button, and a Forum button. The main area is titled "Farmer Community Forum" with the subtitle "Connect, share experiences, and learn from fellow farmers". Below this, there are two messages in a conversational format:

- A message from "hiiii" dated Jan 3, 2026, 09:25 PM, with a "Reply" button.
- A message from "hello" dated Jan 3, 2026, 10:02 PM, with a "Reply" button.

At the bottom, there's a "Start a New Discussion" button and a text input field with the placeholder "Share your thoughts, ask questions, or start a discussion...". A green "POST" button is located to the right of the input field.

## Forum

The screenshot shows a pop-up window for the "AI Farm Assistant". The title bar says "AI Farm Assistant" with a close button. The AI's response is: "Hello! I'm your AI farming assistant. Ask me anything about agriculture, crops, weather, or farming techniques. How can I help you today?". Below this, a green button says "how to grow rice". The AI then provides a detailed response: "In India, rice is a major crop and is grown in multiple seasons. Here's a brief overview of the agriculture seasons in India and a step-by-step guide on how to grow rice: \*\*Agriculture Seasons in India:\*\* 1. \*\*Kharif Season (June to October)\*\*: This is the primary season for rice". At the bottom, there's a text input field with "Type your question..." and two icons: a green play button and a purple pencil.

## Chatbot



## Use Cases

- Farmer uploads photo of wilting leaves → AI detects "Bacterial Blight" → Suggests organic remedy + when to apply.
- Farmer in drought area gets drought-resistant crop suggestions.
- New farmer inputs location/soil → Gets recommendations: "Grow Turmeric (high profit) or Rice (low risk)".
- Village cooperative can use chatbot for seasonal and future planning.



## Customer Value proposition

- For Agri-Businesses: Better supply chain planning and farmer engagement.
- For Farmers: Increase yield, reduce losses, save time, and make data-driven decisions.



## Our Product

- Built using Flask, Firebase & AI models
- Scalable and cloud-ready
- Designed for real-world agricultural use



# Market Size Estimation

SLIDE 13

- India has 140+ million farmers
- Smartphone penetration increasing rapidly
- Pilot Regions: India, Kenya, Nigeria
- TAM (Total Addressable Market): Global AI in agriculture market projected to reach ~\$13 Billion by 2033.
- SAM (Serviceable Addressable Market): India's AI in agriculture market, valued at \$70 Million in 2024 and growing fast.
- SOM (Serviceable Obtainable Market): Focus on specific regions or types of smallholder farmers initially.





# Thank You!

Let's grow a greener future together!

By - Aditya Tiwari  
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