

# Smart Crop Advisory System For Small And Marginal Farmers

AgriGo

## Team Members

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Presented by

Team Echo & Exit



# Problem Statement

## Smart Crop Advisory System for Small and Marginal Farmers

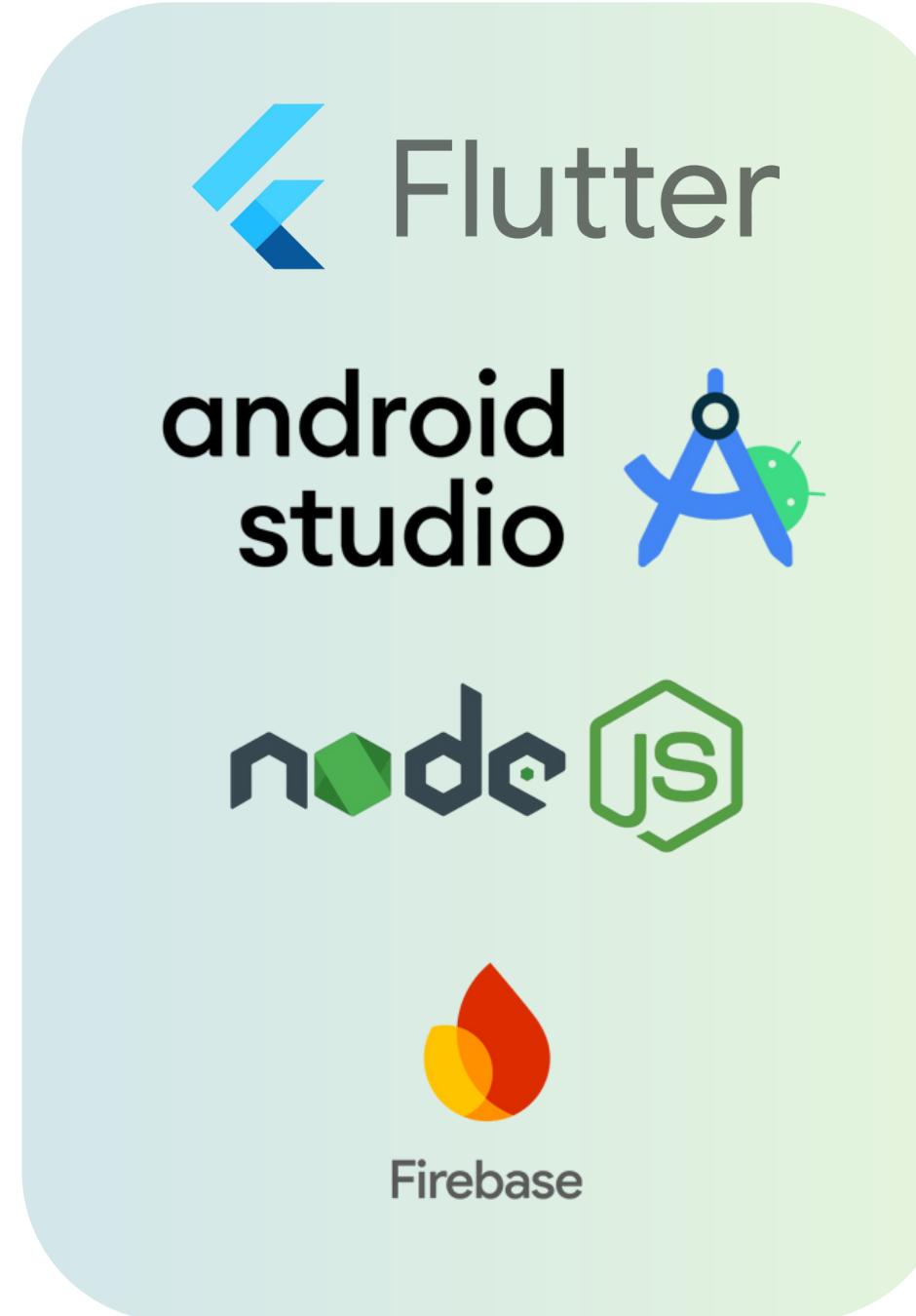


- Blind Decisions: Farmers rely on guesses or outdated local advice instead of hard data.
- No Real-Time Help: They lack instant, personalized advice for their specific field conditions (soil, weather).
- Language Barrier: Digital tools aren't available in local languages or simple formats.
- Chemical Overuse: Inaccurate application causes soil damage and environmental harm.

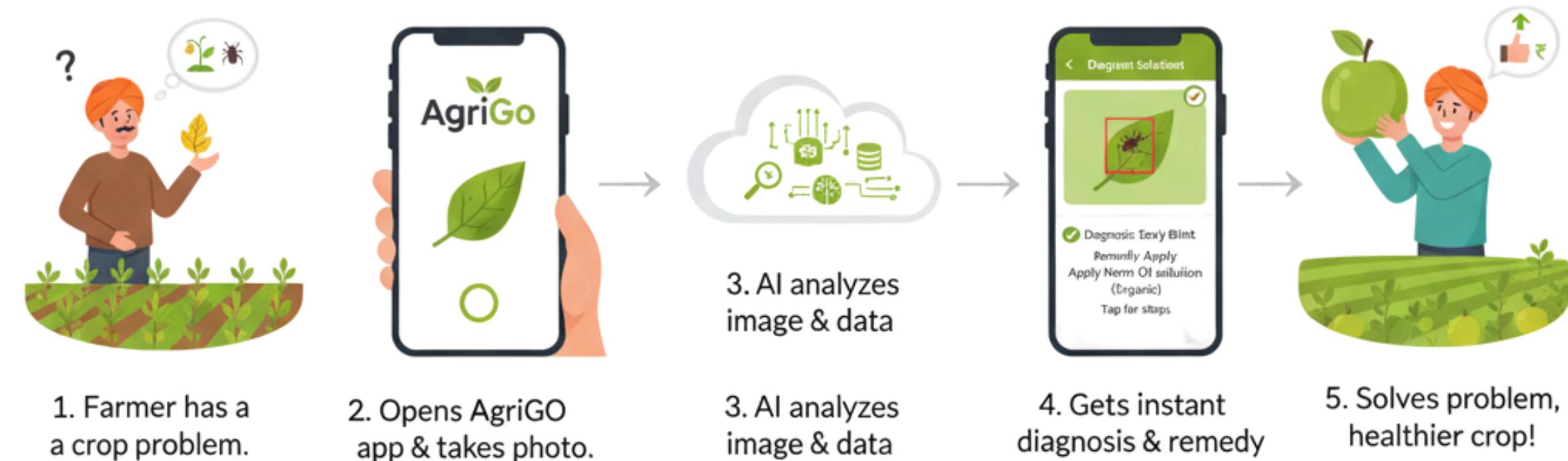


- AI Expert on Demand: Get smart, data-driven advice instantly, replacing guesswork.
- Field-Specific Alerts: Receive real-time, location-based warnings about weather and crop health.
- Instant Pest Diagnosis: Simply upload a photo to immediately identify pests/diseases and get a treatment plan.
- Market Price Tracker: Know the best time and place to sell with real-time market price updates.

# Technical Approach



- Front End : Java, HTML, Tailwind CSS, Flutter
- Database : Google Fire Base
- Backend : Node.js



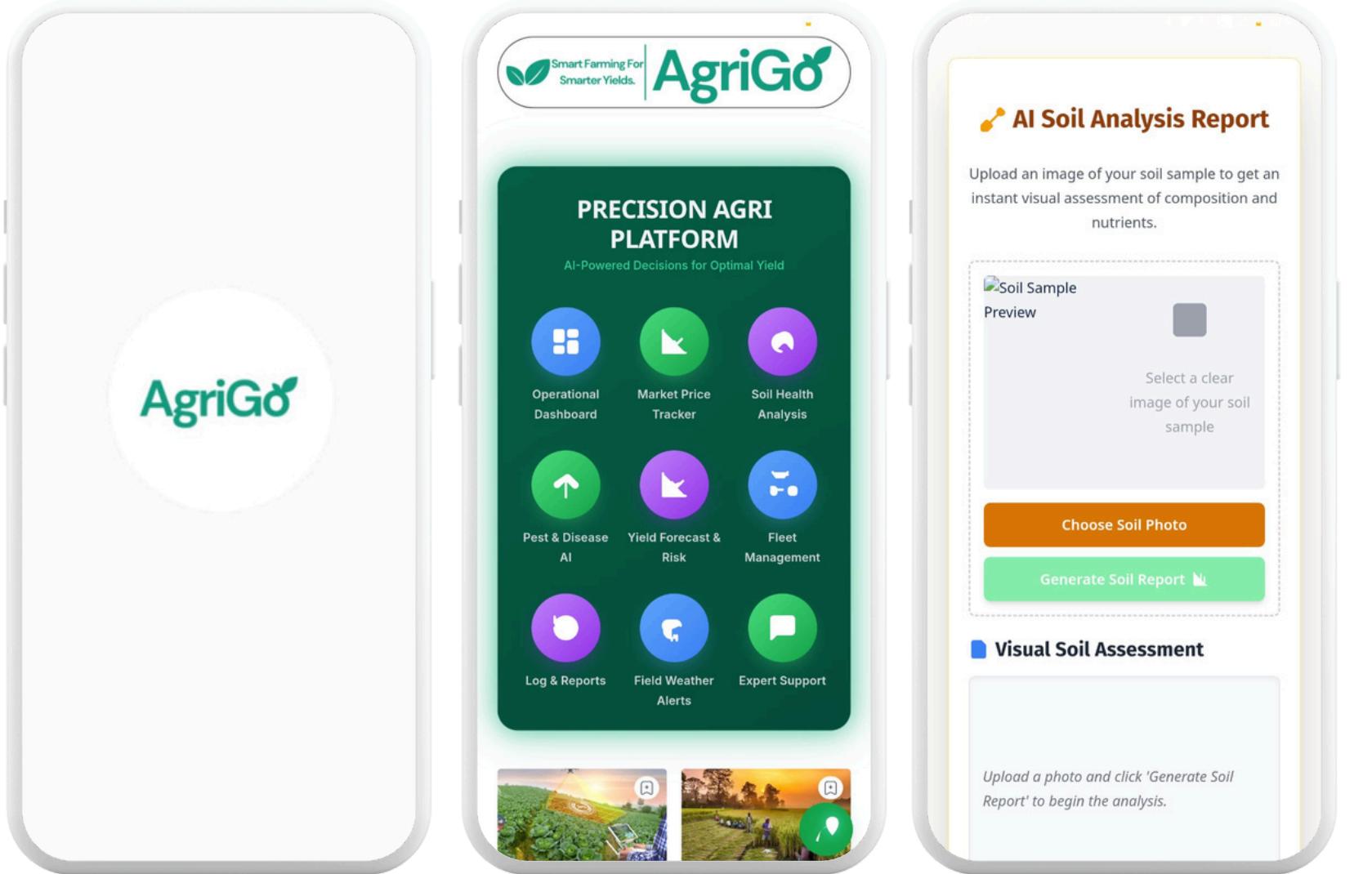
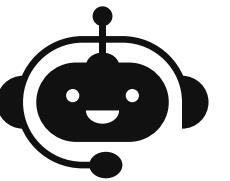
# Feasibility & Viability

03

Menu Pannel

Track Your Crop Price  
Instantly Based on  
Location

Agriculture AI  
Multilingual Chatbot



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## Feasibility

- **High Smartphone Penetration:** Farmers already use mobile phones, making deployment direct and familiar.
- **Accessible Data Sources:** Key data (weather, markets, pest images) is readily available for integration.

## Viability

- **Massive, Defined Need:** The target market of millions of small farmers faces a critical, immediate problem your app solves.
- **Low-Cost Path to Scale:** The mobile-first approach allows for rapid, widespread distribution without major physical infrastructure.

# Impacts & Benefits

## Impacts & benefits

**Increased Farmer Income:** Higher yields and reduced costs directly lead to more money for farmers.

**Food Security Boost:** Better crop management contributes to overall national food production.

**Empowered Rural Communities:** Provides farmers with knowledge and tools for self-reliance and growth.

## Future Trends

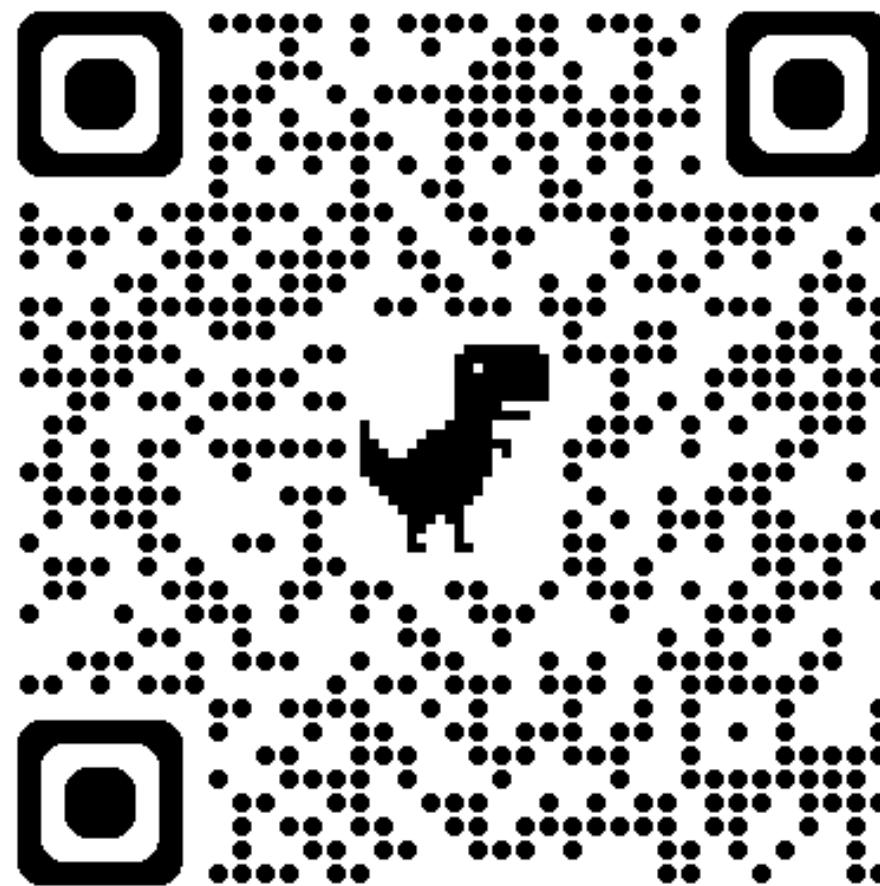
- Fin-Tech Inclusion: Add loans & insurance features.
- Smart Hardware Link: Connect to drones and field sensors.
- Advanced Price Prediction: Use AI to forecast market prices.
- Farmer Social Network: Build a community chat/expert access.



## AgriGo Ai

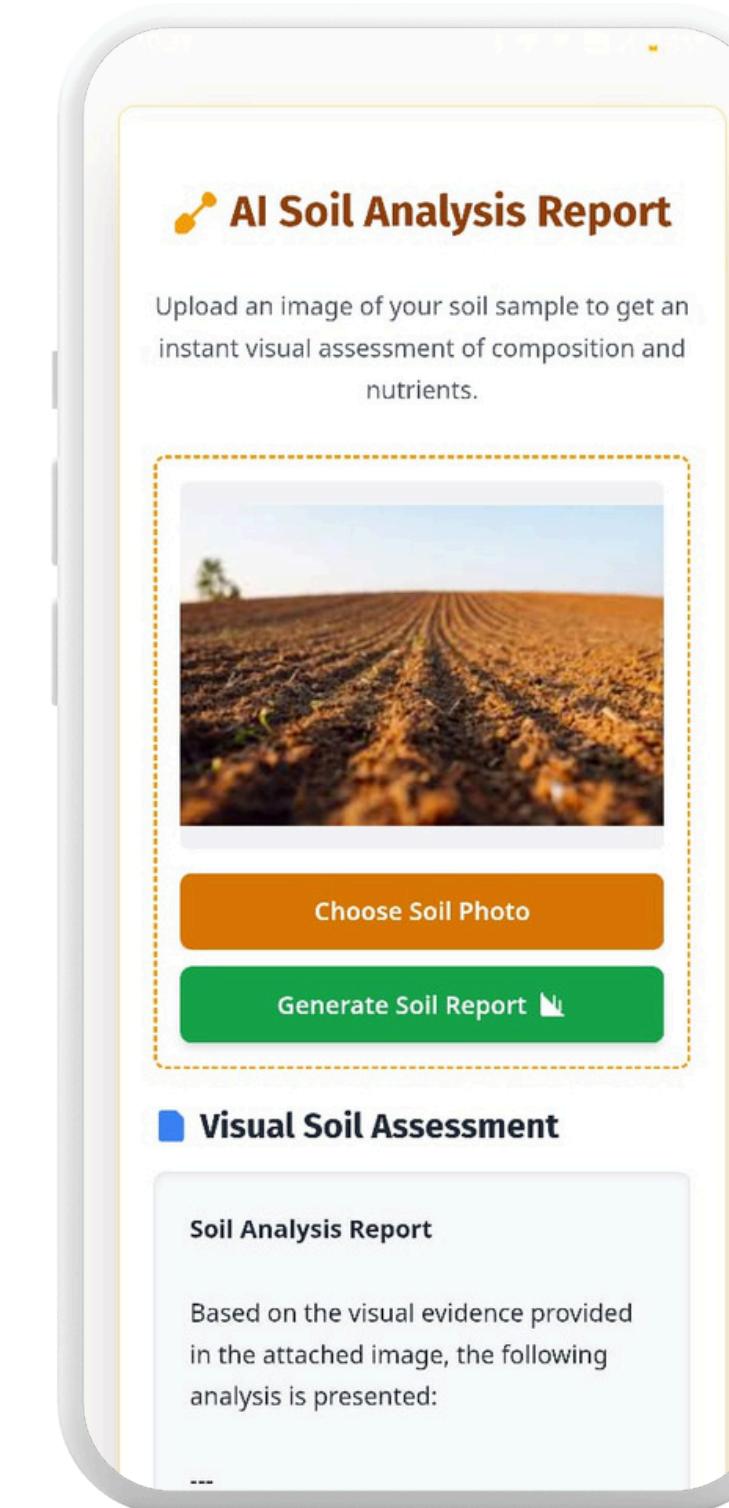
- Natural Language Processing (NLP) allows farmers to ask questions and get advice in local regional languages.
- AI provides precise fertilizer and water recommendations

# AgriGo



**SCAN THE QR TO  
DOWNLOAD APP**

AgriGo



**AI Soil Analysis Report**

Upload an image of your soil sample to get an instant visual assessment of composition and nutrients.



**Choose Soil Photo**

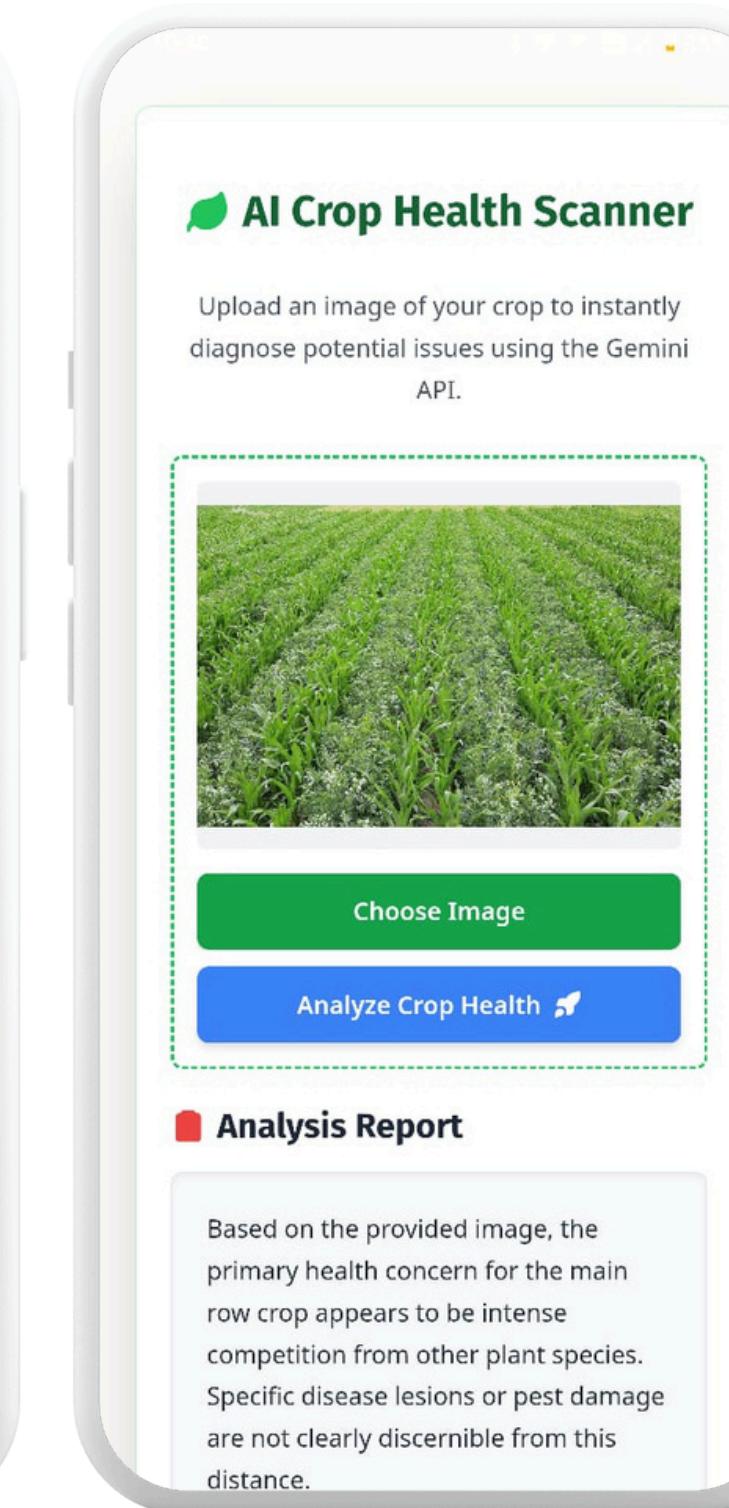
**Generate Soil Report ↗**

**Visual Soil Assessment**

**Soil Analysis Report**

Based on the visual evidence provided in the attached image, the following analysis is presented:

...



**AI Crop Health Scanner**

Upload an image of your crop to instantly diagnose potential issues using the Gemini API.

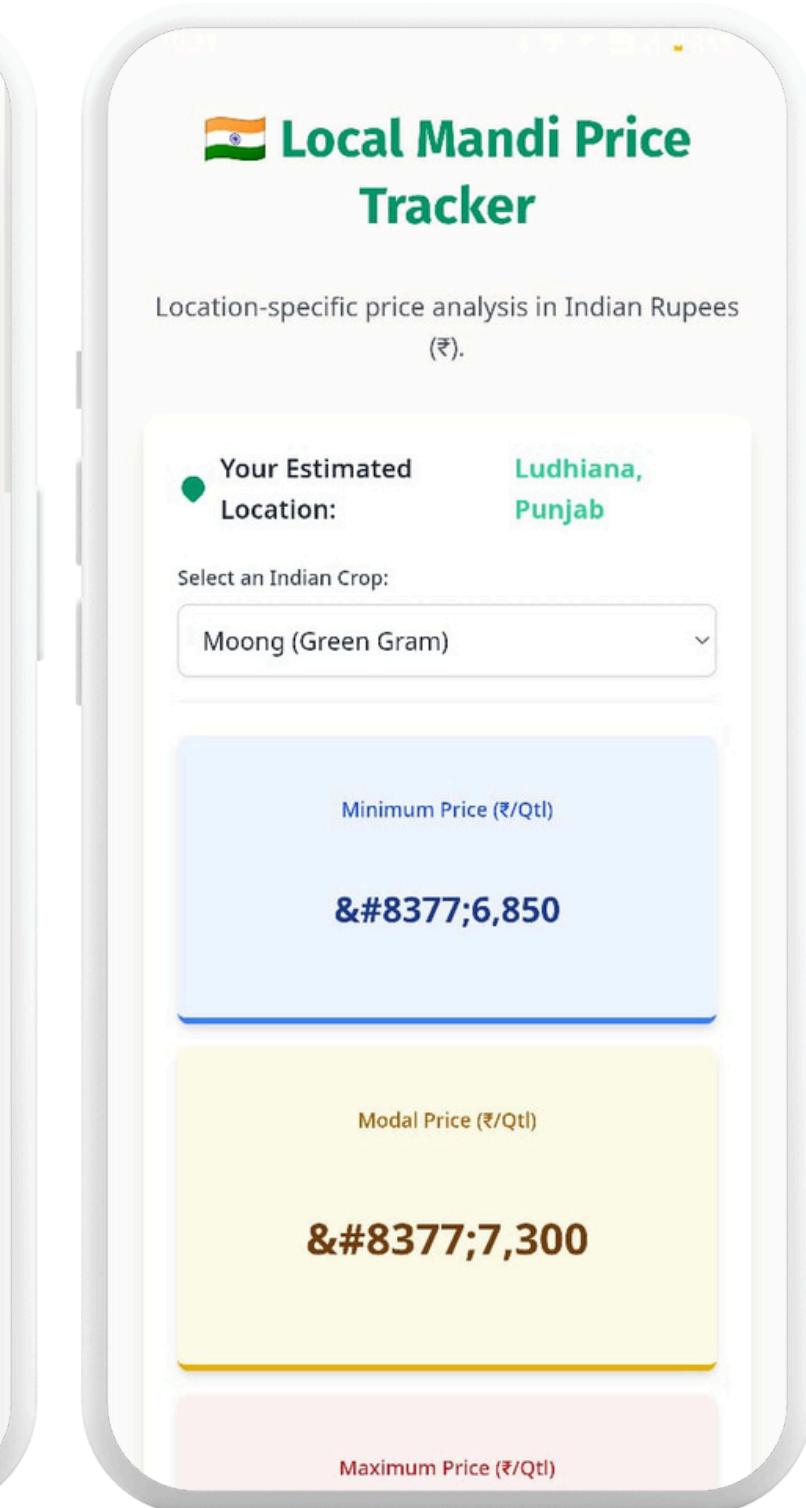


**Choose Image**

**Analyze Crop Health ↗**

**Analysis Report**

Based on the provided image, the primary health concern for the main row crop appears to be intense competition from other plant species. Specific disease lesions or pest damage are not clearly discernible from this distance.



**Local Mandi Price Tracker**

Location-specific price analysis in Indian Rupees (₹).

**Your Estimated Location:** **Ludhiana, Punjab**

Select an Indian Crop: **Moong (Green Gram)**

**Minimum Price (₹/Qtl)** **₹6,850**

**Modal Price (₹/Qtl)** **₹7,300**

**Maximum Price (₹/Qtl)**

# Echo & Exit

## The Algorithm for Awesome

Developed By:

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### References

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Thank You  
For Your Attention

