



**AgriSathi**

**Your Personal Farming Advisor**

Clear advice, in your language



**Sayash Raaj**

**IIT Madras**

Demo video:

[https://youtube.com/shorts/DH7Ye1\\_OrZ8](https://youtube.com/shorts/DH7Ye1_OrZ8)






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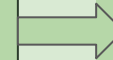
## Why should a farmer's success depend on guesswork?

Every day, millions of Indian farmers face critical questions alone.

-  **Language Barriers:** Advice is rarely in their native tongue.
-  **Digital Hurdles:** Complex apps don't work for everyone.
-  **Poor Connectivity:** Slow internet makes most tools useless.

The result is uncertainty, risk, and lost income.

Demo images on the right



एग्रीसाथी — आपका एआई फार्म  
सलाहकार

हिंदी



Welcome to AgriSathi!

सिंचाई, फसल, मौसम या खेती की सलाह के बारे में पूछें...

सिंचाई, फसल, मौसम या खेती की सलाह





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## Introducing Agri-Mitra.

We are solving the critical **information gap** in Indian agriculture. Millions of farmers lack access to timely, localized, and understandable advice, forcing them to make high-stakes decisions based on guesswork.

**Why it matters:** Empowering farmers with reliable, data-driven guidance directly improves crop yields, increases income, and strengthens food security for the entire nation. We are turning complex data into simple, actionable advice.

Demo images on the right



hi — Your

✓ English

हिंदी

मराठी

తెలుగు

தமிழ்

English



Welcome to AgriSathi!

Learn about irrigation, crops, weather, or  
farming advice...



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Agri-Mitra is a conversational web application that acts as a personal farming advisor.

1. **User Interaction:** The farmer asks a question in their native language (English, Hindi, Marathi, Tamil, or Telugu) using text or voice.
2. **Contextualization Engine:** The app automatically captures the user's **geolocation** and the **current date/time**.
3. **Query Matching:** Instead of a live LLM, our system matches the user's query to a **curated, expert-verified Q&A knowledge base**.
4. **Localized Response:** The system delivers a precise, pre-translated, and context-aware answer that is relevant to the user's specific agro-climatic zone and time of year.

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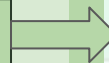
पाई, फसल, मौसम या खेती की सलाह के बारे में पूछें

## Data Sources: Curated Expert Knowledge

Our core strength is our data- a high-quality, curated knowledge base, not a massive, generic dataset.

- **Primary Sources:** We finetuned on representative Q&A pairs from advisories published by State Agricultural Universities, ICAR (Indian Council of Agricultural Research), and government policy documents.
- **Data Preprocessing:**
  - **Content Curation:** We focused on the most frequent and critical farmer queries: irrigation, seed selection, pest control, and government schemes.
  - **Translation:** All Q&A pairs were professionally translated and culturally adapted for our five target languages to ensure clarity and trust.
- **Challenges:** The main challenge was not a lack of data, but filtering out noise and conflicting information to create a single, reliable source of truth for the farmer.

Demo images on the right



गेहूं की फसल को कब पानी देना च





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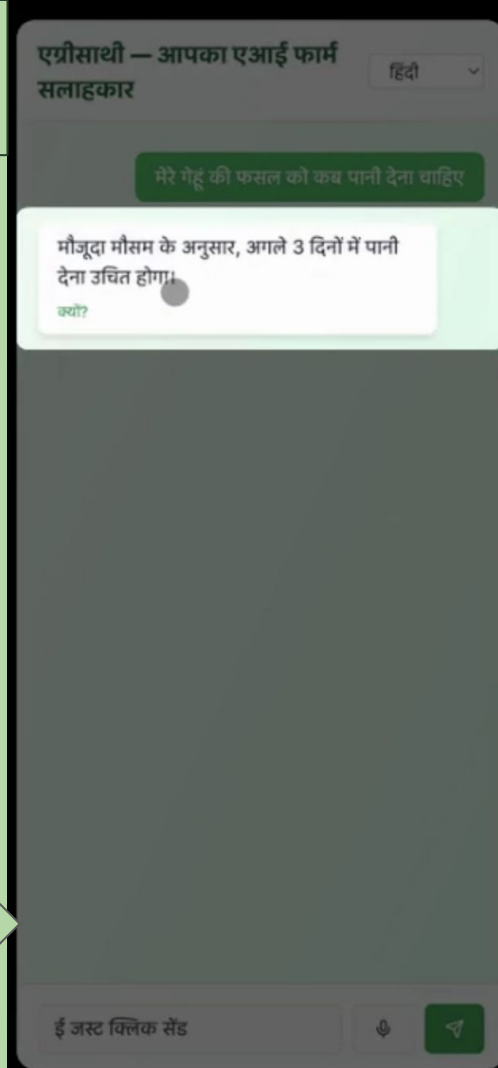
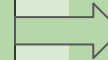
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## Technology & Architecture: Simplicity and Speed

Our design philosophy was "maximum impact, minimum overhead." We chose a tech stack optimized for accessibility and rapid deployment.

- **Architecture:** This zero-dependency model ensures the app is extremely lightweight, fast, and works reliably in low-connectivity environments.
- **Tech Stack:**
  - **Frontend:** HTML, CSS, JavaScript (No complex frameworks).
  - **Backend:** Node.js
  - **Geolocation:** Browser Geolocation API for hyper-local context.
  - **Voice Input:** Web Speech API for natural language interaction.
- **AI Model:** We use multilingual Sarvam-1 developed in India

Demo images on the right





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## Our journey is just beginning.

- **More Languages:** Expanding our reach across India.
- **Live Data:** Integrating real-time market prices and weather alerts.
- **Community Platform:** Connecting farmers to share knowledge and success.

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मेरे गेहूं की फसल को कब पानी देना चाहिए

मौजूदा मौसम के अनुसार, अगले 3 दिनों में पानी देना उचित होगा।

क्यों?

