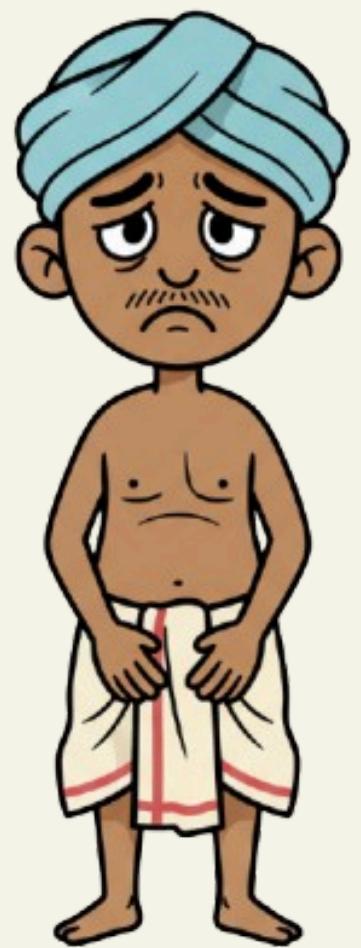




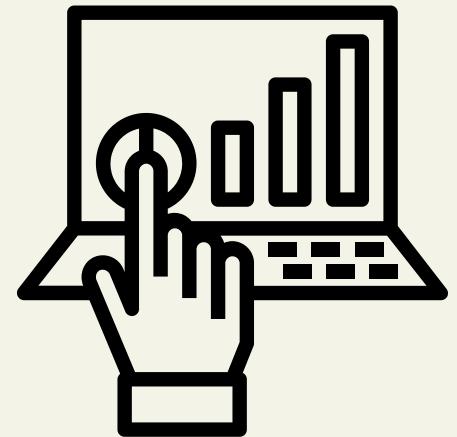
AgriSaathi

From Hardhip to Harvest:
Empowering India's Farmers with AI.

CURRENT CHALLENGES



THE TRANSFORMATION



ON A SERIOUS NOTE

58% ARE AWARE OF ICT TOOLS

68% MOBILE PHONES INCREASE

2X INCREASE IN DIGITALIZATION





RISE IN TECHNOLOGY ADOPTION RATES FROM 2024 TO 2025

38% - 65%

**MOBILE ADVISORY
PLATFORMS**

6% - 12%

AI BASED SOLUTIONS

9% - 17%

IOT SENSORS

FEATURE SET AND DATABASE

This is what features we have added within our deliverable

01

**CHATBOT AND
NOTIFICATIONS**

02

**FARMER'S
FORUM**

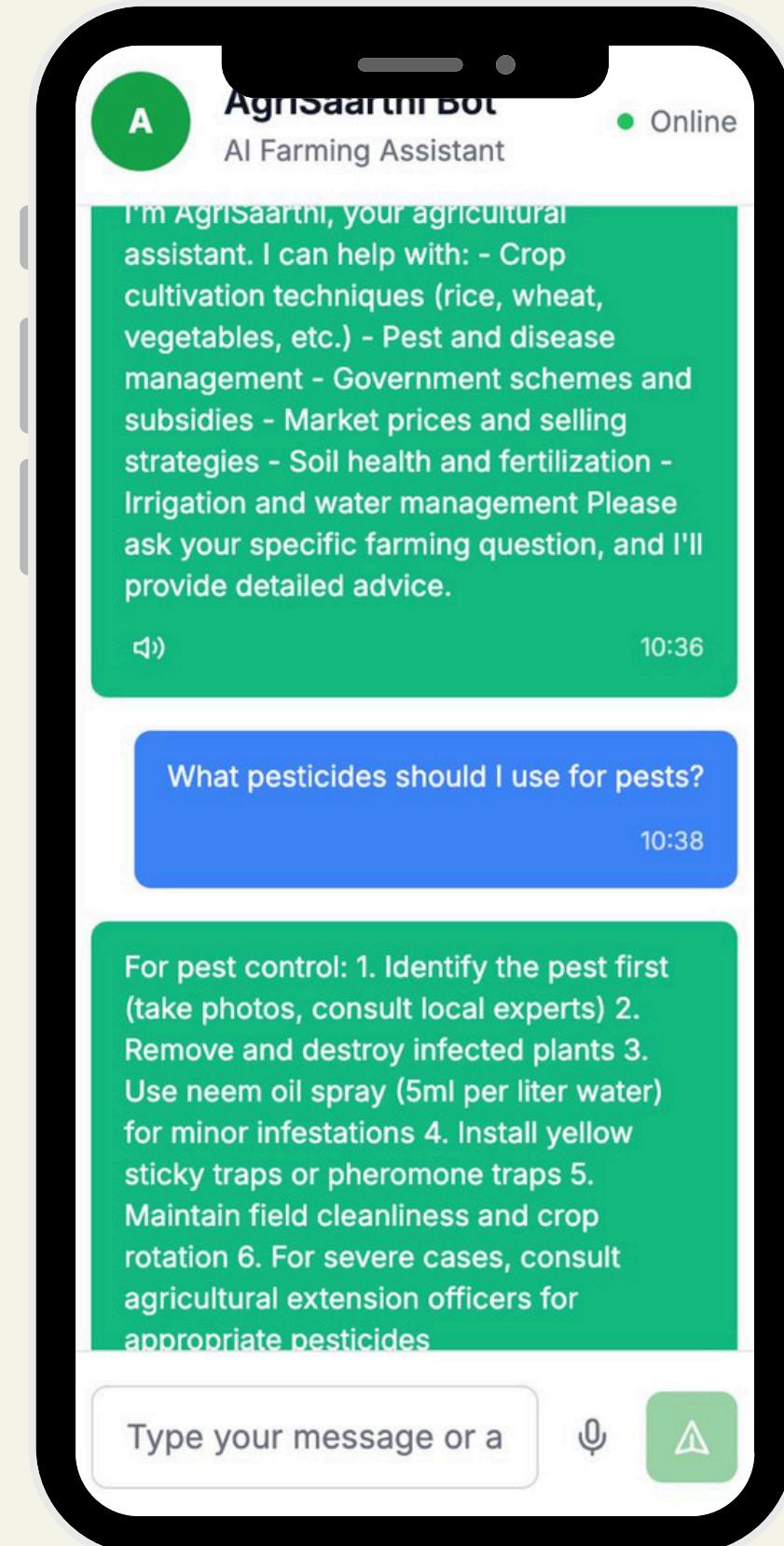
03

**RESOURCE DATABASE
AND
PERSONALIZATION**



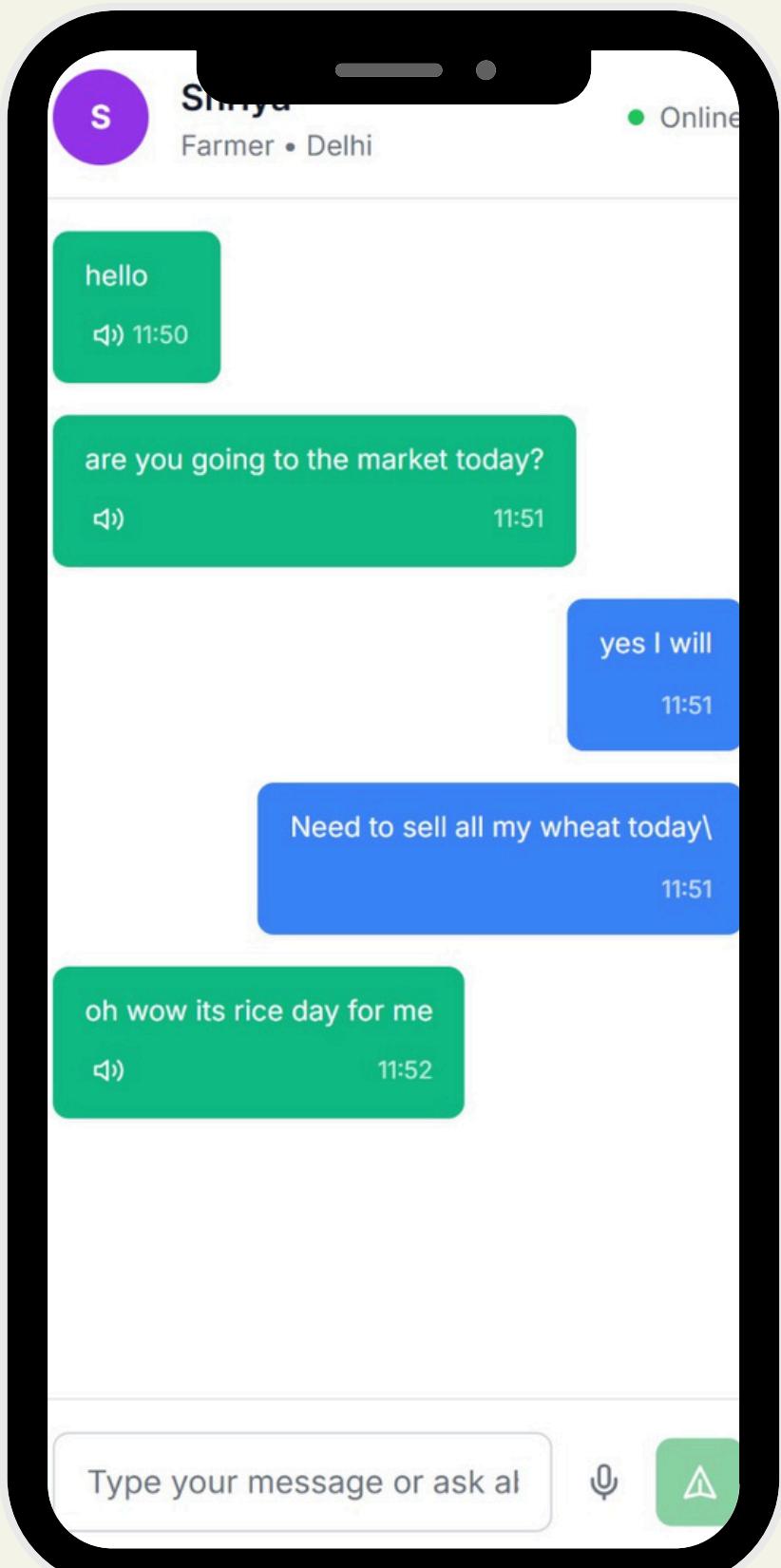
AI POWERED AGRI-HELPER

- API-Centric Design: The chatbot relies on external API calls to the Bhashini platform for all speech-related tasks, keeping the core application lightweight.
- Bhashini ASR Integration: It captures the user's voice, sends it to Bhashini's Automatic Speech Recognition (ASR) API, and receives an accurate text transcription in the detected Indian language.
- Bhashini TTS Integration: After generating a text response, it sends the text to Bhashini's Text-to-Speech (TTS) API to synthesize a natural-sounding, human-like voice output for the user.
- Seamless Multilingual Support: By leveraging Bhashini, the chatbot effortlessly supports multiple Indian languages and dialects for both understanding and speaking.
- Voice-First Interface: The ASR and TTS integration creates an intuitive voice-driven experience, making the technology accessible to farmers regardless of literacy levels.



KISAAN SAMAAJ

-PAN INDIA FARMERS FORUM



YOUR PARAGRAPH TEXT

- Structured Conversations: Organizes discussions into clear, nested threads, ensuring that specific advice and solutions are easy to follow without getting lost in a long chat.
- Instant Language Translation: Breaks down communication barriers with a one-tap feature that translates any post between different Indian languages in real-time.
- Unified National Knowledge Hub: Connects farmers from across the nation, allowing an expert in Punjab to seamlessly share wisdom with a farmer in Tamil Nadu, regardless of their native language.
- Accessible & Actionable Advice: The combination ensures crucial farming advice is not only understandable through translation but also easy to track and implement through threaded discussions.

RESOURCE DATABASE AND PERSONALIZATION

CUMULATION OF ALL YOJANAS

Making a library of all old and new documents, schemes and yojans being provided to aid the farmers based on their region and also relevance

PERSONALIZATION OF DOCS

All the available documents are in the 1000's hence all the necessary documents characterized on the basis of region, crops, associations and more

EDUCATING FARMERS

Educating farmers by telling them about various farming practices, new equipment, usage of fertilizers and a lot more for the overall development of the farmers





REAL TIME DATA

01

WEATHER UPDATES

Real time weather updates from across the country delivered to you in a single click

02

NOTIFICATIONS

Everyday requirements and notifications given you

03

ADVISORY

Advices given to you on the basis of what crop and region you are in

The screenshot shows a mobile application interface with a light blue header bar. On the left, there's a purple button labeled "7-Day Forecast" with a calendar icon. In the center, there's an orange button labeled "Weather Alerts" with a bell icon. On the right, there's a teal button labeled "Farming Tips" with a chart icon.

The main content area has a light yellow background. At the top left, it says "Current Weather". To its right is a blue circular icon with a thermometer icon. Below that, the temperature is displayed as "26.9°C" in large blue digits, followed by the word "Sunny" and the location "Pune".

At the bottom left, there's a small icon of a windmill and the text "Wind Speed 10.4 km/h". At the bottom right, there's a small icon of a water droplet and the text "Humidity 51%".

To the right of the weather card, there's a green rounded rectangle labeled "Farming Advisory". Inside this box, there's a small green icon of a plant and the text "AI Farming Advisory". Below that, a message states: "Current temperature in Pune is 26.9°C with Sunny. Wind speed is 10.4 km/h and humidity is 51%. Moderate wind - avoid aerial spraying but ground application is safe."

FUTURE SCALABILITY

TECHNOLOGY INTEGRATION

The platform can integrate advanced IoT sensors for real-time soil monitoring, drone-based crop surveillance for precision agriculture, and blockchain technology for enhanced supply chain traceability from farm to consumer. Integration with Digital Public Infrastructure (DPI) allows seamless connectivity with government databases and financial systems.

AI AND MACHINE LEARNING ENHANCEMENT

Current AI-powered disease detection and crop recommendations can evolve into predictive analytics for yield forecasting, market price predictions, and climate risk modeling. Machine learning algorithms can provide hyper-localized advisories based on accumulated farm-specific data over multiple seasons.

INTELLIGENT DOCUMENT PROCESSING FOR FARMERS

OCR technology can digitize and automate the processing of critical agricultural documents including land deeds, soil test reports, purchase receipts, loan applications, government subsidy forms, and compliance certificates. This eliminates manual data entry errors, reduces processing time by up to 30%, and enables farmers to access their records instantly through the mobile app.





THANK YOU

TEAM MEMBERS

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