

Team Details

- a. Team name: NEXBIT
- b. Team leader name: B Lakshmi Narayanan
- c. Problem statement: Providing farmers with expert help on demand

Brief about the idea

Make a hyperlocal Digital Twin of the Farm that uses AI to turn weekly smartphone photos into a living timeline of how healthy the crops are.

The tool uses voice-first interaction to give farmers simple, actionable insights in their own language. It does this by combining visual crop analysis with hyperlocal weather forecasts and real-time local market price predictions.

This helps farmers find problems early, plan their harvests to make the most money, and deal with weather uncertainty with confidence.



Opportunities

- Opportunities: How it's different and what makes it unique. Moves beyond static advisories. makes a crop timeline for each farmer that is personal and changes over time.
- Brings together real pictures, weather, and price forecasts into one place.
- Voice-first and local-language support make it easy for farmers who can't read or write.
- Creates a digital asset that farmers can share with banks, co-ops, buyers, or insurance.
- For multimodal, personalized, real-time analysis, it uses Google AI (Gemini, Vertex AI).



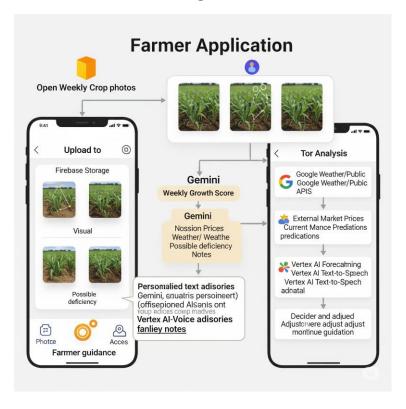


List of features offered by the solution

- Upload pictures of your farm every week so that AI can find growth patterns and signs of stress in your crops.
- Hyperlocal weather overlay shows the risk of drought or disease.
- Local market price tracker and prediction help you figure out when to harvest.
- Weekly advice in your own language (voice and text) that is tailored to you.
- A monthly digital report (in PDF and voice) to send to banks, buyers, or experts.
- Voice-first Q&A: Ask in Hindi or Kannada and get answers right away.
- Look at how this season is different from past seasons.



Process flow diagram or use-case diagram



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Technologies to be used in the solution

Photo analysis

Voice input & output

Price trend forecasting

Natural language advice

App & data storage

Real-time market & weather

Google Al Product / Tool

Gemini multimodal

Vertex AI Forecasting

Vertex Al Speech-to-Text & Text-to-Speech

Gemini

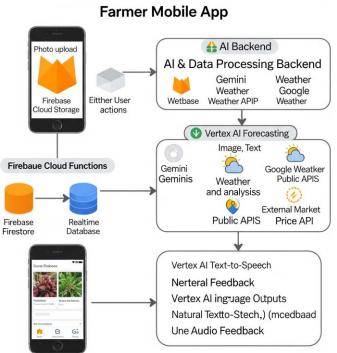
Firebase Studio

Public APIs + integration





Architecture diagram of the proposed solution graph TD

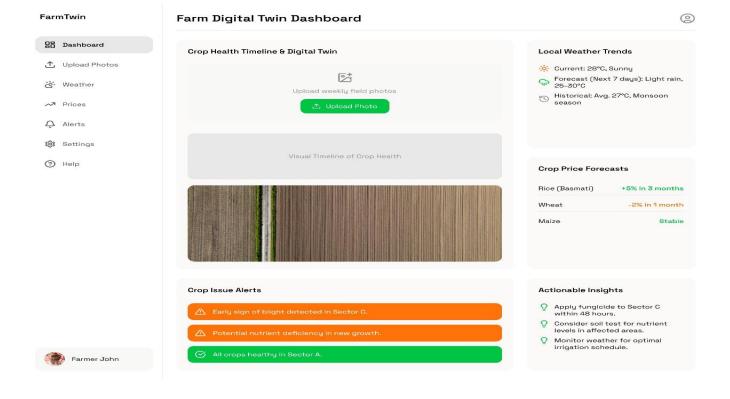




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Wireframes/Mock diagrams of the proposed solution (optional)





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Thank you!