

User & Farm Setup

- Login / Signup (multi-language support)
 - Add farm details (location via GPS, crop type, field info)
 - Connect IoT devices (soil moisture, temperature, humidity, water storage sensors)
 - Upload crop or soil photos
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Main Dashboard (Color-coded Sections)

1. Weather & Alerts 🌤️

- Hyperlocal forecasts (rainfall, temperature, irrigation guidance)
- Drought planner (water budget, crop alternatives)
- Flood alerts + post-flood recovery checklist
- Harvest-time & unseasonal-rain notifications
- Climate-smart cropping advisor
- Extreme weather preparedness toolkit

2. Soil Health 🌍

- Soil-conservation how-to toolkit (erosion prevention)
- Soil health report & nutrient plan (NPK, pH analysis)
- Salinity/alkalinity diagnosis + reclamation guide

3. Pest & Disease 🐛

- Pest swarm alerts + community response
- AI-assisted crop disease diagnosis (photo upload)
- Step-by-step treatment protocols with reminders

4. Learning & Education 🎓

- Multilingual tutorials (infographics, videos, voice guides)

- Voice-IVR tips for low-literacy farmers
 - Offline learning mode
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Notifications / Alerts

- Real-time push, SMS, or IVR alerts
 - Personalized based on crop, soil, weather, and IoT data
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Uploads & AI Analysis

- Crop photos for disease/pest detection
 - Soil test values or reports
 - AI outputs: risk zones, stress levels, treatment recommendations
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Advisory & Action Screen

- Fertilizer and soil treatment suggestions
 - Water & irrigation management
 - Dynamic sowing/harvest calendars
 - Pest/disease control steps
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Post-Damage / Recovery Support

- Upload field photos for government insurance claims
- Access government schemes
- Connect to nearest **Krishi Vigyan Kendra** for expert guidance

- Recovery checklist after floods/drought/pests
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Reports & Follow-ups

- Crop health trends over time
 - Soil fertility and nutrient history
 - Pest/disease outbreak logs
 - Exportable farmer-friendly reports (PDF, mobile)
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