



AGROSMART

S M A R T F A R M I N G D A S H B O A R D

presented by:

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About Us



Mission Statement : To empower farmers with smart, data-driven solutions that enhance productivity, optimize resources, and promote sustainable agriculture through technology and innovation.



- **Values:**

- **Innovation**

- Harnessing modern technologies (IoT, AI, Data Analytics) to transform agriculture into smart farming.

- **Sustainability**

- Promoting eco-friendly practices to conserve water, soil, and energy.

- **Empowerment**

- Providing farmers with accessible tools to make informed decisions.

- **Collaboration**

- Building a strong connection between farmers, researchers, and technology providers.

- **Integrity**

- Ensuring transparency, trust, and reliability in our solutions.

- **Impact**

- Driving measurable improvements in yield, efficiency, and farmer livelihoods.

AgroSmart - Tech Stack

Authentication & Security

- **JWT (JSON Web Token)** → Secure user login & role-based access

Backend (APIs & Business Logic)

- **ASP.NET Core Web API** → RESTful services
- **Entity Framework Core** → ORM for MS SQL
- **Hosting: Render** (backend deployment)

Supporting Tools

- **GitHub** → Version control & collaboration
- **Postman** → API testing & validation

Frontend (User Dashboard)

- **React.js** → Interactive, component-based UI
- **Tailwind CSS+ Framer Motion** → Modern design + smooth animations
- **EmailJS** → Send emails directly from dashboard (e.g., Contact Us, Notifications)
- **Hosting: Netlify** (fast global CDN)

Database (Data Storage)

- **Microsoft SQL Server**
- **Hosting: Azure SQL Database** (scalable, secure, reliable)

Key Features

- **Weather Forecasting** (via OpenWeather API)
- **Insights & Analytics** (crop & soil data)
- **Schedules & Reminders**
- **Notifications** (email via EmailJS + dashboard alerts)
- **Knowledge Badges** (learning & achievements)
- **Role-Based Dashboard** (User vs Admin)



Smart Farming for Sustainable Future

Revolutionize your agricultural operations with AI-powered insights, real-time monitoring, and data-driven decision making. Join thousands of farmers who trust AgroSmart for better yields and sustainable farming.

[!\[\]\(74d4806277d7e73349d8e8c0897931e9_img.jpg\) Start Free Trial →](#)[!\[\]\(0aff635c4179ba9e710b00f4b01d3b20_img.jpg\) Learn More](#) 30% Yield ↑ 100% Secure 10K+ Farmers**10,000+**

Active Farmers

50,000+

Acres Managed

30%

Yield Increase

24/7

Support

 **AgroSmart**
Farm Management System

-  **Dashboard**
-  **Farms**
-  **Fields**
-  **Crops**
-  **Sensors**
-  **Weather**
-  **Schedule**
-  **Insights**
-  **Notifications**
-  **Knowledge Badges**
-  **Profile**

 **Admin Baraiya**
Admin
Users

Dashboard





Welcome to AgroSmart Dashboard

Total Farms

11

↑ 5% from last week



Active Sensors

10

↑ 8% from last week



Avg. Moisture

0 %

↑ 2% from last week



Rain Forecast

No



Recent Activity

• Farm data updated

2 hours ago

• Sensor maintenance completed

4 hours ago

• Weather forecast updated

6 hours ago

Quick Weather



32.5°C

Clear Sky

Humidity

60%

Rainfall

undefined mm

Wind Speed

5.5 km/h

Top Performing Crops

Corn

Active

Tomato

Active



Dashboard

My Farms

My Fields

My Crops

Schedule

Weather

Insights

Notifications

Knowledge Base

ACCOUNT

Profile

Settings



Vishal Baraiya
Personal Farm Manager

Welcome back, Vishal Baraiya! 🌱

Here's what's happening with your farms today

Sunday, September 7, 2025

My Farms

11

↗ +2 this month



[View details →](#)

My Fields

10

↗ +1 this week



[View details →](#)

Active Crops

0

↗ Growing well



[View details →](#)

Total Area

0.0 acres



[View details →](#)

Today's Weather



24°C

Temperature



65%

Humidity



Partly Cloudy

Good farming conditions

Quick Actions



Add New Farm

Register a new farm to your portfolio

[Get started +](#)



Add New Field

Create a new field for crop management

[Get started +](#)



Plant New Crop

Start tracking a new crop cultivation

[Get started +](#)

User Dashboard

- Dashboard Overview
- Weather Page
- Insights Page
- Notifications Page
- Schedules Page

Admin Dashboard

- Manage Users
- Manage Crops / Farms
- Approve / Send Notifications
- Analytics Panel

Workflow / Use Case

- Farmer Login
- Check Weather
- Add Crop Schedule
- Get Notification
- Track Progress via Insights.

Future Enhancements

- Mobile App version
- AI-based crop disease detection
- Integration with IoT sensors (soil, irrigation)
- Multi-language support

Benefits

- Real-time data for farmers
- Better crop management & yield
- Cost savings through optimization
- Easy-to-use web app

github.com/mr-baraiya/AgroSmart

www.agrosmart.me



Thank You!



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