



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)


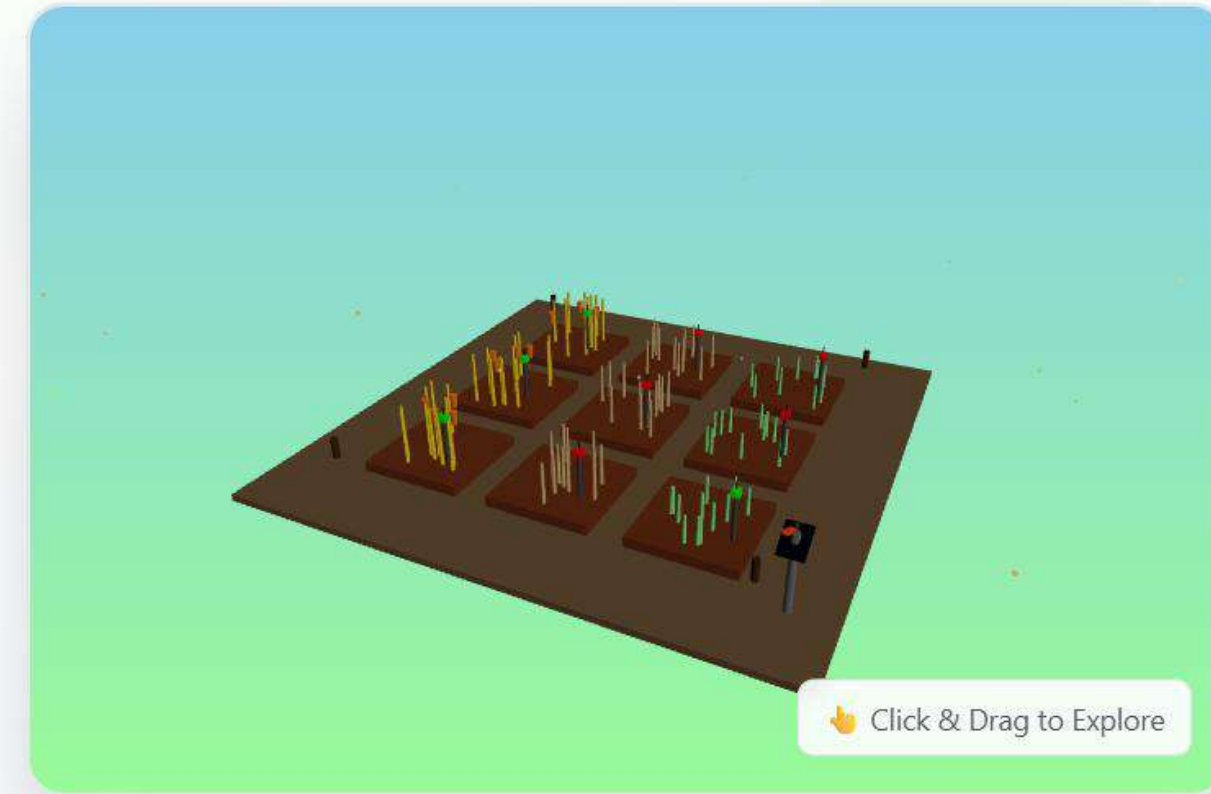
Key Features

- **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.

[Start Free Trial →](#)[Learn More](#) 30% Yield ↑ 100% Secure 10K+ Farmers**10,000+**

Active Farmers

50,000+


Acres Managed

30%

Yield Increase

24/7

Support



Farm Management System

Dashboard

Farms

Fields

Crops

Sensors

Weather


Schedule

Insights

Notifications

Knowledge Badges

Profile




Admin Baraiya

Admin


Users

Dashboard

Search...



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Admin

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

**AgroSmart**
Personal Dashboard

Search farms, fields, crops...

**Vishal Baraiya**
Personal Farm Manager

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

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 +

www.agrosmart.me

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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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