

Team No : 18

Food Security and Resource Optimization

Building a sustainable future for food requires a transformative approach to resource management. This presentation explores how technology can play a vital role in optimizing food production, distribution, ensuring everyone has the resources to start their agricultural journey.



GreenHaven

Many residents of cities plan on "agriculture" as a retirement plan. But, generally, they don't have much idea about it, due to the lack of exposure. To deal with this issue, and also so that they can get an initial boost to start their farming journey, we've made our website called "GreenHaven"



We Provide 2 Plans:

Normal User:

Services:

1. Create fertilizers from waste
2. Plan a farm visit (appointment after 10 days)
3. Assess your land (model trained on limited data)

Premium User:

Services:

1. Create fertilizers from waste
2. Plan a farm visit (appointment after 3 days)
3. Assess your land (model trained on extensive data, guaranteeing accurate results)
4. Insurance Claim (if our predicted crops lead to a loss)

Services we offer:



Create your own fertilizer at Home



Visit a farm to get information from farmers



Use our ML models to predict the crop type suitable for your area

Sustainable Food Production: Leveraging AI and Data Analytics

AI-Powered Insights

Artificial intelligence analyzes vast datasets to identify patterns and predict crop yields, optimize resource allocation, and improve decision-making.

Data Analytics

Data analytics helps users(new farmers) understand their operations, identify areas for improvement, and make informed decisions based on real-time insights.



USP:

1

Insurance Claim

Providing aid for the losses incurred due to any inaccurate crop predictions .

2

Predictive Analytics

Forecasting the best crop as per the designated area, weather conditions, and user's requirements.

3

AgroTourism

By arranging appointments, city farmers can visit the farms of farmers in the village, leading to extra income for the farmers and extensive sharing of information.

4

JWT token authorization

Protecting routes by storing encrypted tokens in the local storage of your browser