



Meet our team



Albert Antony



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“To forget how to dig the earth
and tend the soil is to forget
ourselves”
Mahatma Gandhi





Who, What, and Why?

In today's world where today's technology becomes obsolete by the end of the week, with most industries harnessing the power of Machine Learning, the agriculture and farming industries have been seemingly left in the dirt (pun intended).

Introducing AgroHub





The Problem At Hand





Some Facts

- Nearly three quarters of rural India depend on farming for their livelihood
- The rural population accounts for more than 65% of the country's population
- In 2018, around 36 per cent of households had a smartphone, which increased to 74.8 per cent in 2022
- India's food security depends on producing cereal crops, as well as increasing its production of fruits, vegetables and milk

The problem



- **Three agriculture sector challenges will be important to India's overall development and the improved welfare of its rural poor:**
 - Raising agricultural productivity per unit of land
 - Reducing rural poverty through a socially inclusive strategy that comprises both agriculture as well as non-farm employment:
 - Ensuring that agricultural growth responds to food security needs
- **With AgroHub, we set out to create a tool for farmers to harness the power of Machine learning to tackle the first challenge with ease**



Mission Statement

AgroHub innovates by leveraging advanced machine learning for personalized tools, solving intricate farming challenges. From predicting yields to suggesting cultivation strategies, it heralds a new era of precision agriculture. With data-driven insights, we empower farmers for informed decisions, increased productivity, and a sustainable future.



Product Description



A cutting-edge AI-powered platform designed to empower farmers in optimizing their growth and development. This comprehensive tool seamlessly integrates essential features, including real-time weather information, a marketplace for agricultural equipment and accessories like fertilizers and pesticides. At the heart of this project lies a trio of advanced machine learning models, collectively designed to enhance farming efficiency, streamline decision-making processes, and propel agricultural success.

- Crop Recommendation Model **(Accuracy : 99 %)**
- Yield Prediction Model **(Accuracy : 97 %)**
- Crop Damage Predication Model **(Accuracy : 82 %)**



Discover Our Farming Solutions

Explore innovative tools and techniques for modern
agriculture

Agro Help



Crop Recommendation

Paragraph of text beneath the heading to explain the heading. We'll add onto it with another sentence and probably just keep going until we run out of words.

[Call to action](#)



Crop Yield Prediction

Paragraph of text beneath the heading to explain the heading. We'll add onto it with another sentence and probably just keep going until we run out of words.

[Call to action](#)



Crop Damages

Paragraph of text beneath the heading to explain the heading. We'll add onto it with another sentence and probably just keep going until we run out of words.

[Call to action](#)

Weather Updates for Delhi

Recent weather updates are listed below.

Temperature

Cloud Percentage 100
Temperature 14
Feels Like 14
Humidity 94

Temperature And Wind

Minimum Temperature 14
Maximum Temperature 14
Wind Speed 2.06
Wind Degrees 30

Sun

Sunrise1706665217
Sunset1706704107

Explore our wide range of fertilizers to nourish your crops and enhance yields.

Equip Your Farm with Essential Tools and Equipment

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Explore our wide range of fertilizers to nourish your crops and enhance yields.

Boost Your Harvest with Quality Fertilizers

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Crop Recommendation

N (Ratio of Nitrogen content in soil):

P (Ratio of Phosphorous content in soil):

K (Ratio of Potassium content in soil):

About Us

Welcome to AI Coders Bin Shawarma, where passion for flavor meets the art of coding. We're not just a shawarma company; we're a culinary experience infused with innovation and tradition. At AI Coders Bin Shawarma, we craft more than just delicious dishes – we create memories, moments of indulgence, and a fusion of tastes that transport you to the bustling streets of the Middle East..



Impact and Scalability



AgroHub isn't just a solution; it's a catalyst for impactful change in agriculture. Our platform has already demonstrated its positive influence on farmers, enhancing productivity, resource optimization, and overall efficiency. As we continue to expand our reach, the scalability of AgroHub becomes evident. The potential impact on a global scale is profound, with the ability to revolutionize farming practices and contribute to a more sustainable and resilient agricultural future. Join us in cultivating a world where every farmer can harness the power of precision agriculture for a bountiful harvest.

Future Plans



- **Daily crop prices**
- **Agricultural and related news**
- **LLM finetuned and trained with local agricultural data**
- **Integration with API for data and Batch learning**
- **Collaboration with local government and agricultural agencies and laboratories**

Tech Stack



- **Frontend**

- HTML
- CSS
- Bootstrap
- JavaScript

- **Backend**

- Python with ML Libraries,
- Flask
- Dockers/Github



Thank you



Github repo link:

<https://github.com/arnavs04/AgroHub>