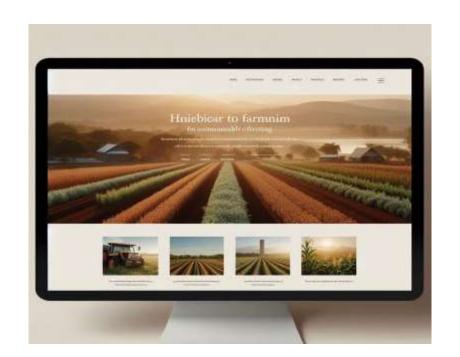
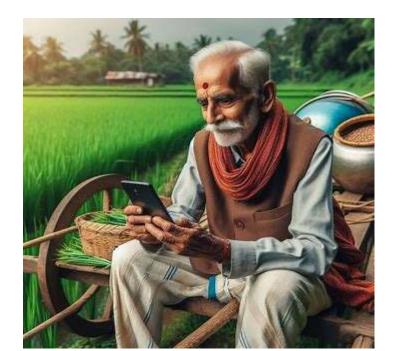


# FARMCARE: Farmer's BackBone

#### **Crop Monitoring Using Computer Vision**





Team: Sophisticated Ai Ashok Suthar





### Problem Statement

- ❖ A farmer is the Backbone of a country(India) and farmers are going through a crisis due to varias reasons.
- ❖ Computer vision is a great way to know more about crops and help farmers technically analysis the field at a low cost
- A simpler UI and interactive models might save money and the lives of many farmers in India. So, This project is all-rounder support a farmer can ask for.

Lets provide Technical Eyes to Farmers!!









### Farmers

Botanists

- Department of Agriculture
- Researchers/scientist

### Statistics

- ❖ Computer vision has been used in agriculture to increase crop yields by 4–6%
- ❖ The global market for computer vision in agriculture is projected to reach several billion dollars by 2025, with a compound annual growth rate (CAGR) exceeding 20%.
- ❖ Accuracy rates for yield estimation using CV algorithms can exceed 90% in some cases.





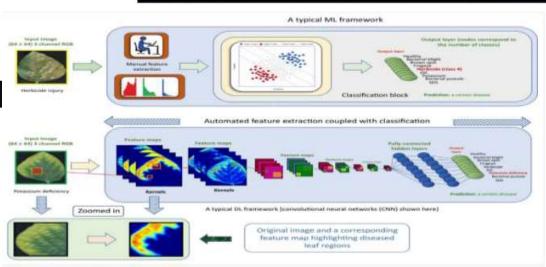
## Existing System

- Weed Detection and Management Syste
- Crop Disease Identification and Diagnos
- Soil texting using computer vision

# locate tomato

### LIMITATIONS:

- Using Technical and heavy word
- Old Datasets
- ❖New Research in GenAl



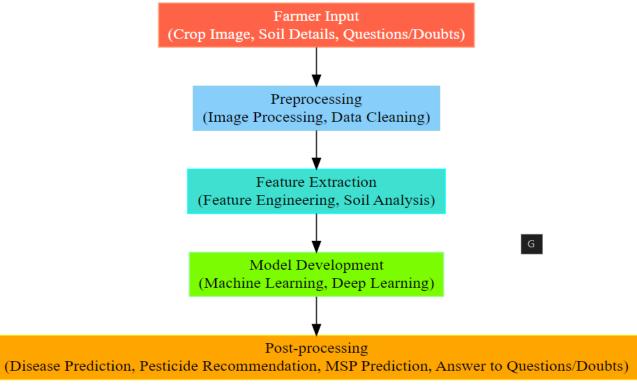




Our Model is a all-rounder farmer's helper using computer vision

### FEATURES:

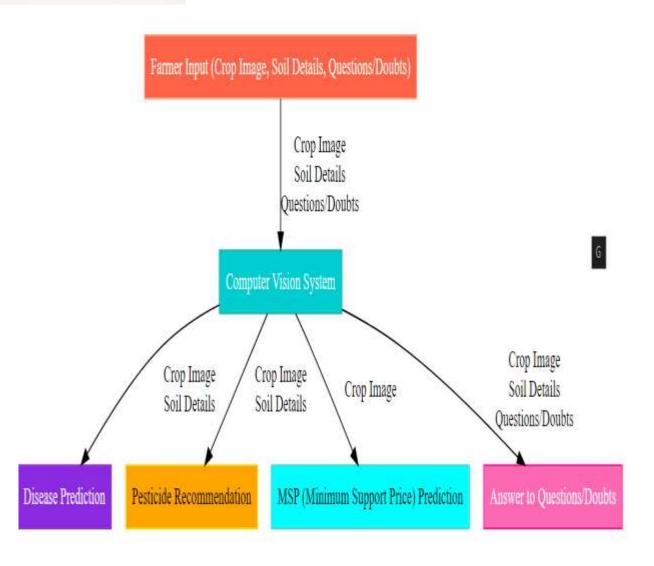
- Detecting plant disease
- Recommend pesticides
- ❖ Soil Analysis and solutions
- ❖ MSP –connecting to buyers
- Multi-Lingual ChatBot

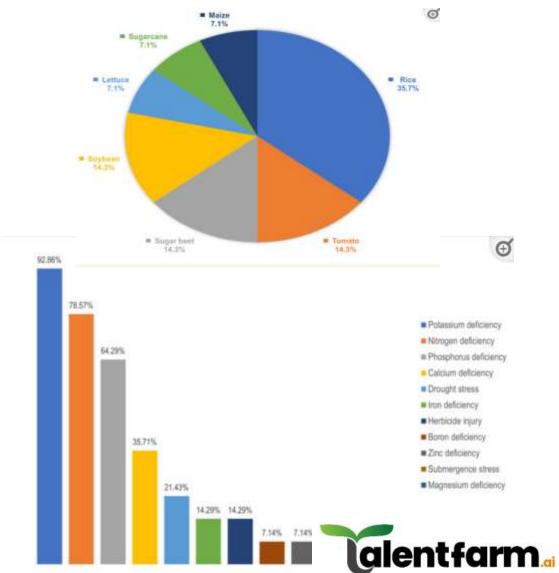






# Architecture / Block Diagram







### References

- Inspiration: <a href="https://github.com/Gladiator07/Harvestify">https://github.com/Gladiator07/Harvestify</a>
- ❖ MSP Dataset: <a href="https://data.gov.in/resource/commodity-wise-details-minimum-support-price-msp-mandated-crops-during-2000-01-2017-18-and?as\_fid=41dae52b62435359a38574822b144af9f30ef1d0">https://data.gov.in/resource/commodity-wise-details-minimum-support-price-msp-mandated-crops-during-2000-01-2017-18-and?as\_fid=41dae52b62435359a38574822b144af9f30ef1d0</a>
- ❖ Plant disease dataset: <a href="https://www.kaggle.com/datasets/vipoooool/new-plant-diseases-dataset">https://www.kaggle.com/datasets/vipoooool/new-plant-diseases-dataset</a>
- Plant recommendation : <a href="https://www.kaggle.com/datasets/atharvaingle/crop-recommendation-dataset">https://www.kaggle.com/datasets/atharvaingle/crop-recommendation-dataset</a>
- Chatbot: <a href="https://www.researchgate.net/publication/366759579\_A\_Machine\_Learning-Based\_Mobile\_Chatbot\_for\_Crop\_Farmers">https://www.researchgate.net/publication/366759579\_A\_Machine\_Learning-Based\_Mobile\_Chatbot\_for\_Crop\_Farmers</a>
- Inspiration: <a href="https://github.com/Gladiator07/Harvestify">https://github.com/Gladiator07/Harvestify</a>





# Thank you!

