



# Agri Hero

Where Accessibility meets Agriculture

Team Delta Ducks



# Abstract

Our project idea is to create an application which will act as a hub for the agricultural activities of a region. Currently, the agriculture sector is facing severe crisis as result of recent regulatory changes. These changes have abolished the Open Markets, a very important tool that allowed the farmers to sell their production at fair prices. The situation has become worst due to the poor infrastructure for crop management. To address the same, Delta Ducks have come to rescue with "AgriHero".



# Where Accessibility Meets Agriculture

The background of the page is a photograph of a vast agricultural field. In the foreground, rows of young green corn plants are growing in dark brown soil. The plants are in sharp focus, while the background shows a line of trees under a bright, hazy sky, creating a sense of depth and a peaceful rural atmosphere.

# Literature Review

- 1) [https://www.researchgate.net/publication/334858202\\_Internet-of-Things\\_IoT-Based\\_Smart\\_Agriculture\\_Toward\\_Making\\_the\\_Fields\\_Talk](https://www.researchgate.net/publication/334858202_Internet-of-Things_IoT-Based_Smart_Agriculture_Toward_Making_the_Fields_Talk)
- 2) <https://www.kdnuggets.com/2020/06/crop-disease-detection-computer-vision.html>
- 3) O. Kulkarni, "Crop Disease Detection Using Deep Learning," *2018 Fourth International Conference on Computing Communication Control and Automation (ICCUBEA)*, Pune, India, 2018, pp. 1-4, doi: 10.1109/ICCUBEA.2018.8697390.

# Innovation in the Project

Our interface provides one stop destination for farmers to get access to all the relevant information they need. Be it the latest news, selling, Buying crop products without approaching any trader in the market. The main objective is to improve the transparency in the whole system of crop selling and buying.

Other than that farmers can get updates about the weather conditions and any potential extreme weather conditions also a pre trained ml model is also employed to detect diseases in the crop which can give farmers a fair idea about any potential threat to their crops.



What are you interested in?













Buying ▾

Go

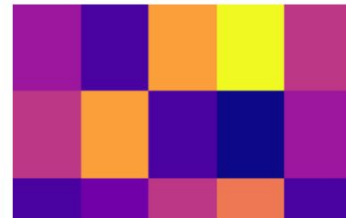
## Quick Access

Weather Vellore

12.92°N 79.13°E 218m asl

Sat 4-10	Sun 4-11	Mon 4-12	Tue 4-13
			
36 °C	35 °C	35 °C	36 °C
24 °C	24 °C	25 °C	25 °C
18 km/h	19 km/h	17 km/h	22 km/h
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No Alerts





₹10.0 /kilogram

**POTATO**

📍 Vellore, Tamil Nadu

AgriHero Verified ✓

[Order](#)

₹10.01 /ton

**WHEAT**

📍 Mirzapur, Uttar Pradesh

AgriHero Verified ✓

[Order](#)

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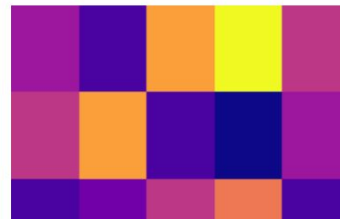
**Quick Access**

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No Alerts





Temperature

50 °C



Humidity

50 %



Average Soil Humidity

10 %



Rain Probability

10 %

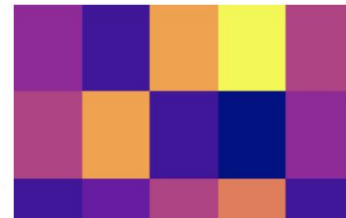
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Alert: Smoke Detected





# Future Scope of the Project

Since the Main Motive behind developing this platform is accessibility for the farmers. In Future we can add support for the local languages in our website for the ease of usage for the Farmers also more data can be trained for improving the efficiency of the disease detection in the crop. The data and alerts can also be provided based on the crops the farmer grows which can be taken as a input from the farmers and based on the crop entered the parameters can be adjusted like the temperature and soil moisture alert.