



Presents

A stylized graphic of a globe, consisting of a red circle with black wavy lines representing latitude and longitude. The globe is positioned to the left of the main title text.

# The Future of AgriTech

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# Witness The Future







# PROBLEMS FACED BY FARMERS?

- 1) Crop failure- Due to Disease
- 2) An over reliance on traditional crops.
- 3) Lack of information causes economic loss
- 4) Middlemen reaping the bulk of the revenues.

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# Tech Stack

## website

Design and interface:HTML,CSS

Programming language: PHP

Scripting language:JAVASCRIPT,AJAX

DATABASE: MYSQL Server

## ML-Model

keras imagedata generator  
& CNN convolutional neural  
network

CNN architectures-

mobile net

InceptionV3

Vgg-16

## Mobile App

Xml

Java



# Crop failure- Due to Disease

As we all know, between 28 and 30 percent of fruits, vegetables, and crops are lost each year owing to illnesses that, if caught early enough, may be treated.

To address this, we create a machine learning (ML) model that is trained to identify illnesses using leaf image processing. This algorithm will be able to quickly distinguish between a wide range of illnesses. In order for farmers to save their crops by taking the necessary action, this algorithm also suggests the best treatments for diseases

Future plans include for the addition of drone imagery, which will enable rapid coverage of a sizable field.





# **An over emphasis on conventional crops.**

Farmers in India have been producing the same crops for a very long time. Because the soil's composition is always changing, they are unable to maximize their profits and occasionally have to deal with crops failing completely.

We develop a machine learning (ML) model to address this issue that is taught to evaluate soil quality based on NPK (nitrogen, potassium, and phosphorus) levels in the soil and forecast the best crop for that area to farmers so they may maximize their income.

**Future Aims:** By connecting an Internet of Things (IOT) device to our model, farmers will be able to check their results by simply inputting a soil sample.

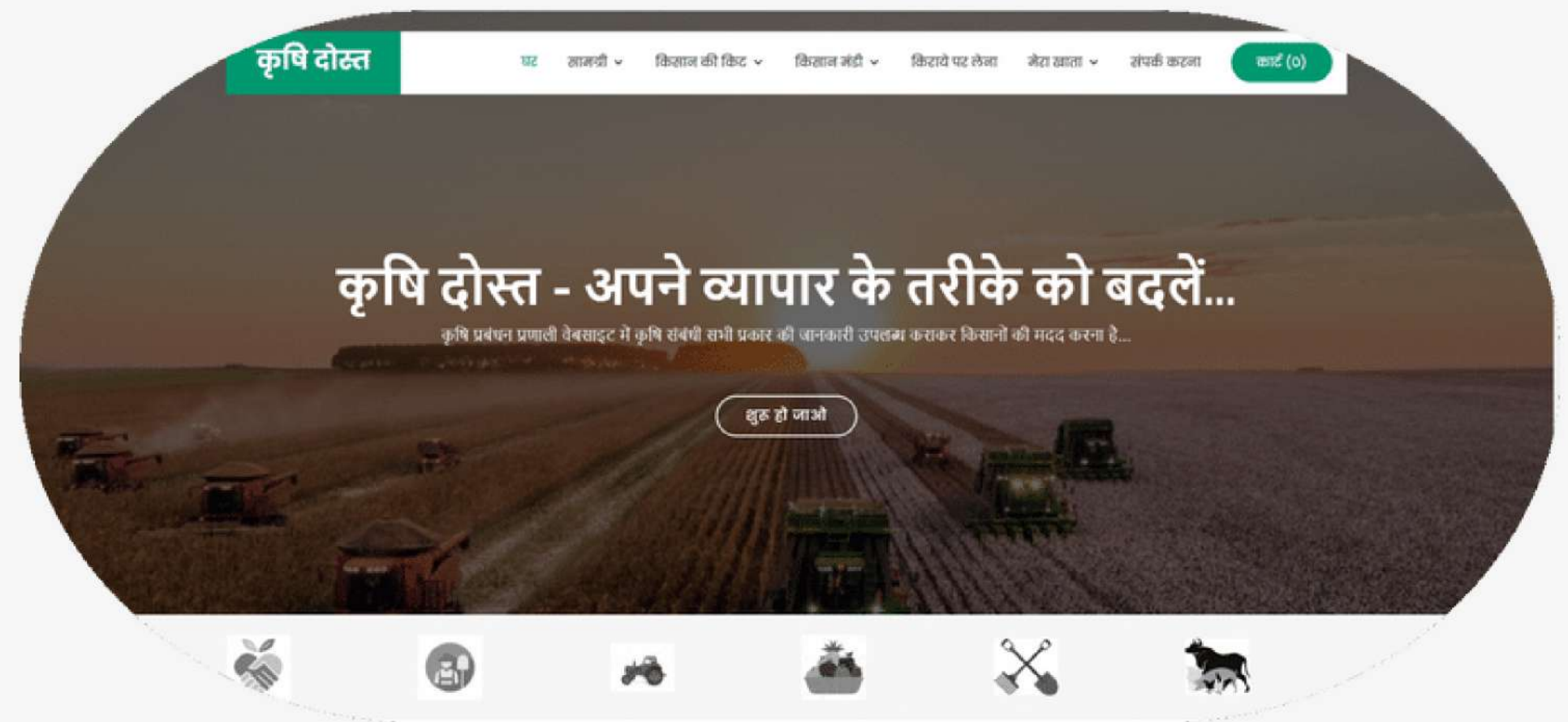




# Lack of information causes economic loss

Farmers in India are typically uneducated, which makes it easy for middlemen to influence them and convince them to sell their goods for low prices. Additionally, they lack knowledge about contemporary farming methods that could help them increase their revenues.

To address this, we provide our own website **KRISH-e DOST** which indicates INTELLIGENT AGRICULTURE.





# कृषि दोस्त

**Similar to how true friends support one another throughout their lives, we pledged to assist our nation's farmers by offering them the following amenities**

- 1) Via our website, where farmers may purchase anything related to farming, such as fertilizer, seed, and medications.**
- 2) Farmers and consumers can connect using this website. Customers and farmers can search and browse a variety of information here. This website offers advice on best farming practises and assists farmers with online sales of their agricultural products.**
- 4) It enables farmers to monitor the output of their farms.**
- 5) To offer technology and services to farmers, merchants, and farm labourers, enabling them to grow their businesses and access a larger market. Therefore, enhance current farming practises and disseminate information about current agricultural challenges.**

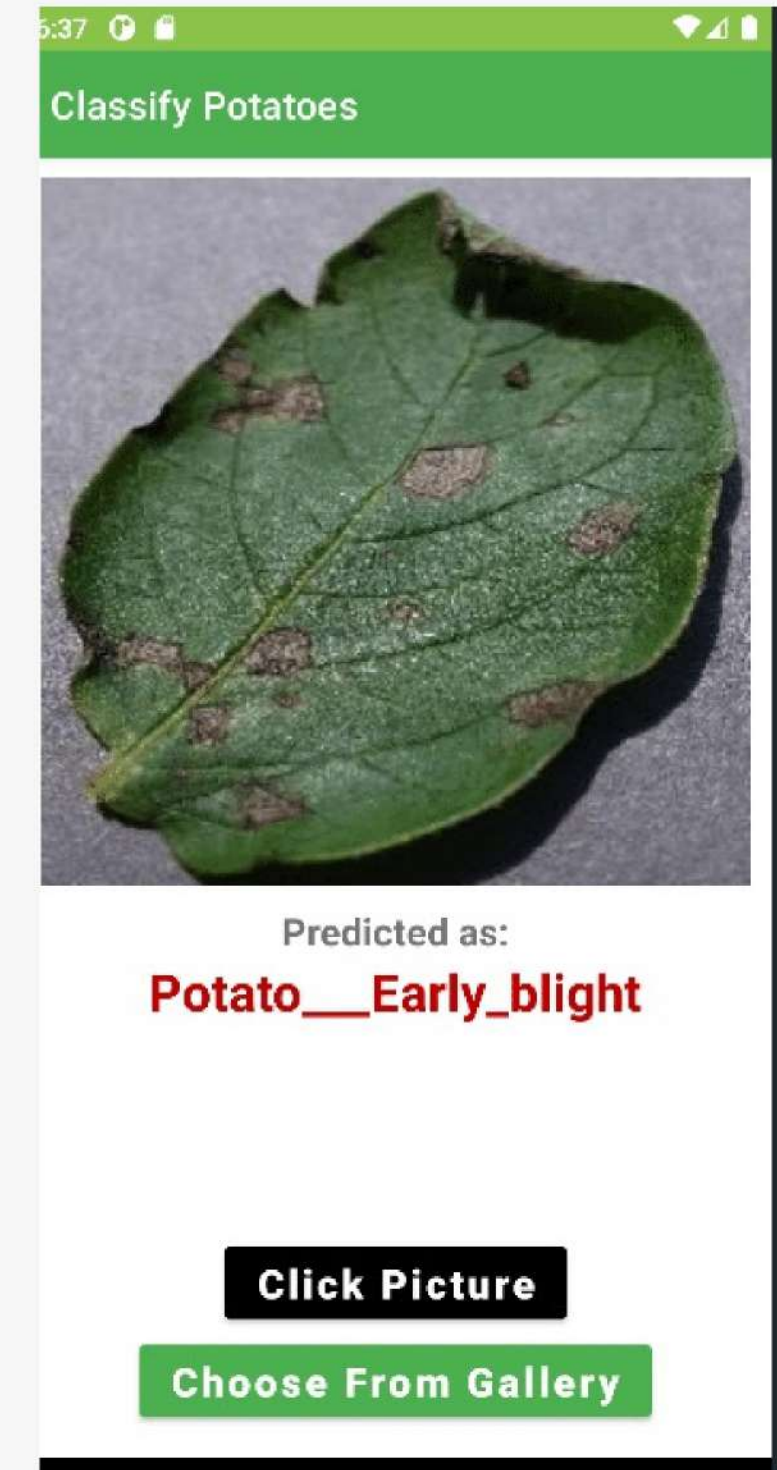


# KRISH-e DOST MOBILE APP-

To help farmers to detect disease we create our mobile app KRISHIDOST which is connected with our ML model.

Our app is so much user friendly and easy to use.


Farmers just need to click pic of the leaf or select from gallery and our app will tell you the disease and also the best treatment. Our app is so simple. Isn't it!









# BRIEF



Our plant/crop disease detection ML algo is trained to find out diseases using leaf image processing. This algo will be able to quickly differentiate between a large number of different diseases.



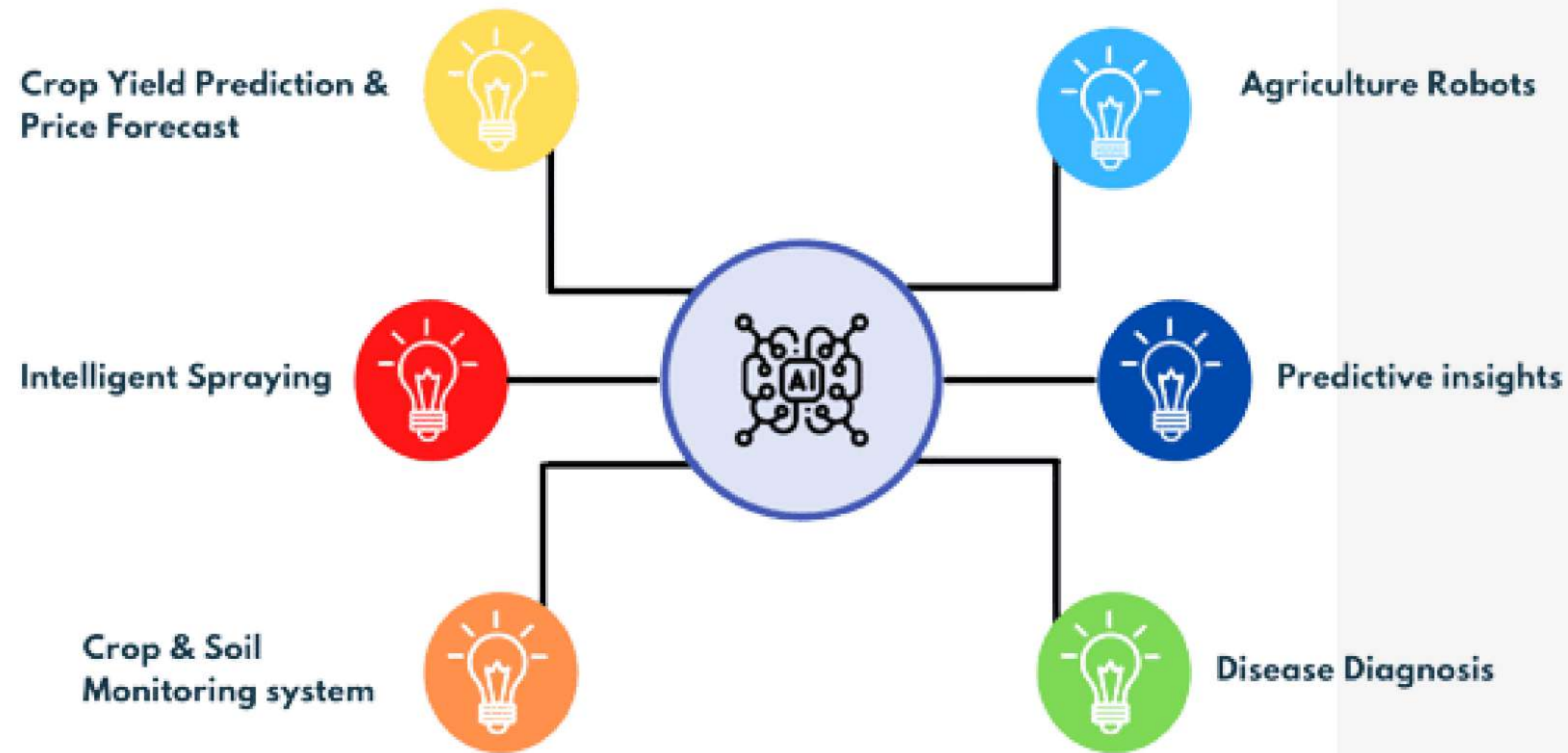
Crop Prediction using IOT devices and ML algo:- It is has been trained to analyse soil quality based on NPK (nitrogen , potssium ,phosphorus) levels in the soil and forecast the best crop for that region



The application gives you an ecosystem where you can buy/sell on prices as per demand/supply , buy fertilizers/equipments , use various services to boost yield/hectare .Also, any query solved by Ai chatbot.



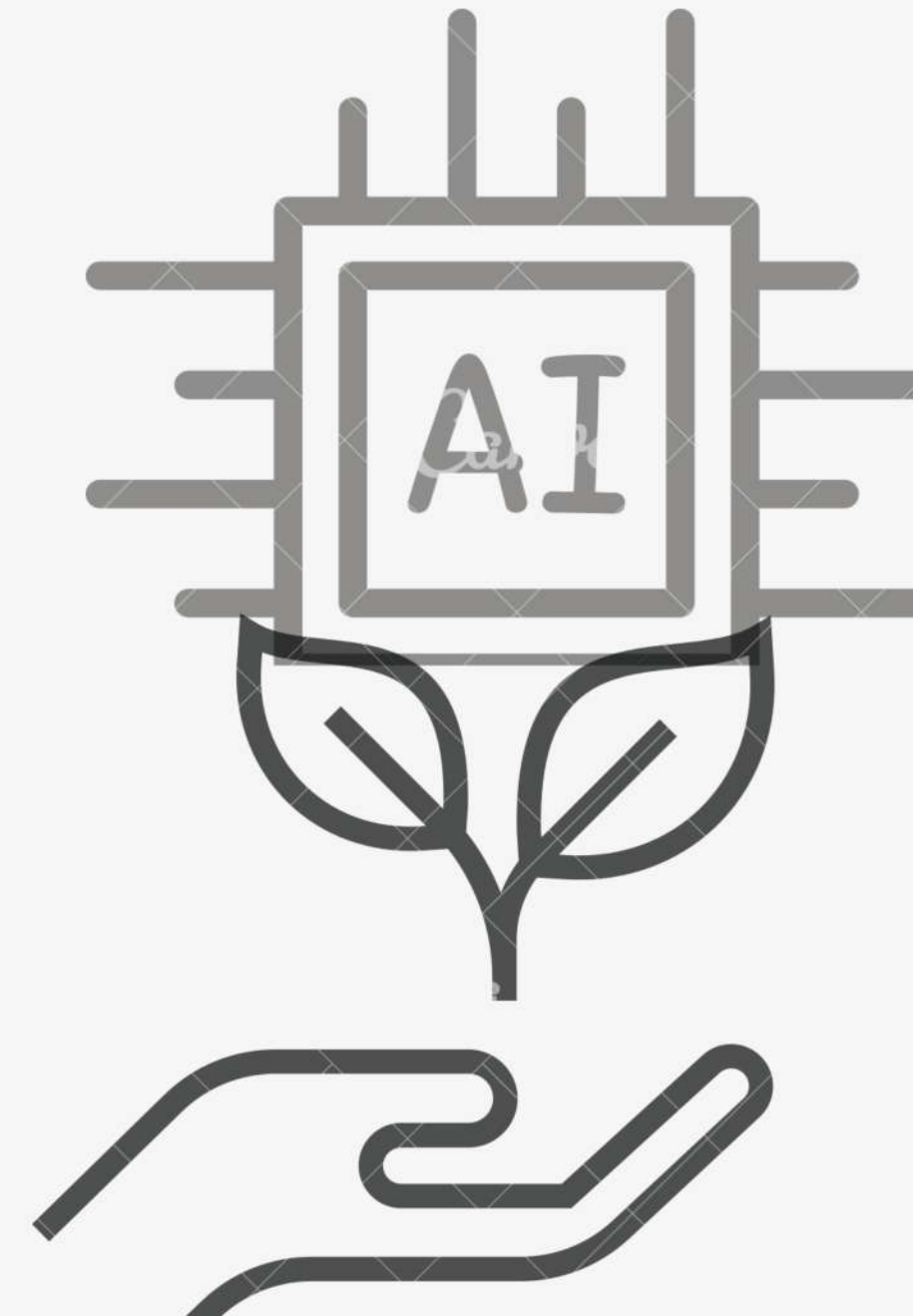
## Artificial Intelligence in Agriculture & farming



<https://globaltechnologyupdate.com>

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# WHY USE OUR PRODUCT ?





# **Future Aspects**

- 1) Sensor technology can be used to assess the product's quality.**
- 2) We may add an SMS alert feature, so that the customer receives an SMS when a new item is purchased, a new product is released, a delivery date is approaching, etc.**
- 3) We can include a chatbot where farmers can talk to Agri specialists to address farming-related problems.**
- 4) We can make our website multilingual to make it easier for farmers from all around the nation to use.**
- 5) We'll make it user friendly.**



