

AI SOLUTION FOR FARMER

TEAM MEMBERS :

1. Sanskar Gupta
2. Ravi Patidar
3. Brajmohan Mandloi
4. Aman Kumar Singh



PROJECT GUIDE :

Dr. Rajeev Gupta
CSE Department

Problem Statement

Design and Development of AI Solution for Farmers

- India has large population and majority of total population dependent on the agriculture sector.
- By the idea of digitalization , now we want to transform traditional agriculture into modern agriculture with the help of Internet Of Things and Artificial Intelligence.
- Farmers of our country face many issues in today's scenario, the climate conditions have become uncertain with unpredictable monsoon, farmers work hard in the field but due to unexpected climate condition ,they are struck with bad luck and pest attacks their crop.

About Project

- ❖ In view to make India farmers advanced , we are providing a digital solution with an android and IOS app as it can be made available to the farmers of India.
- ❖ The app will provide following features :
 - The app will provide information regarding farmers and YOJNAS provided by the government.
 - Information about climatic condition like fog , humidity, temperature, rainfall, variation in temperature .
 - Disease identification of crops.
 - Real time information of temperature, humidity and moisture of soil from the field.
 - Notification regarding new information and climatic condition will be sent.

Tools and Technologies

Front End Technology

Flutter
Dart

Back End Technology

Firestore
ML
Kaggle
Google API

IOT Tools

Arduino
Micro controller
DHT11
Soil Sensor

Requirements

❖ Functional Requirements :

- **Disease Identification** : Farmers can upload the image and get the disease identified.
- **View Climatic Condition** : Farmers can view the climatic condition .
- **Suggest Pesticides** : Suggestion of pesticides according to disease identified.
- **View Field Report** : Farmer can view the real time climatic condition of field.

Requirements

❖ Non Functional Requirements :

- **Compatible** : Compatible With above 4.3 version of Android Devices .
- **Real Time Data**: Farmers can view the climatic condition .
- **Robustness**: We follow Agile Model and divide the project in small modules and testing each module ,so the project become robust it handle exception itself.

Thank You