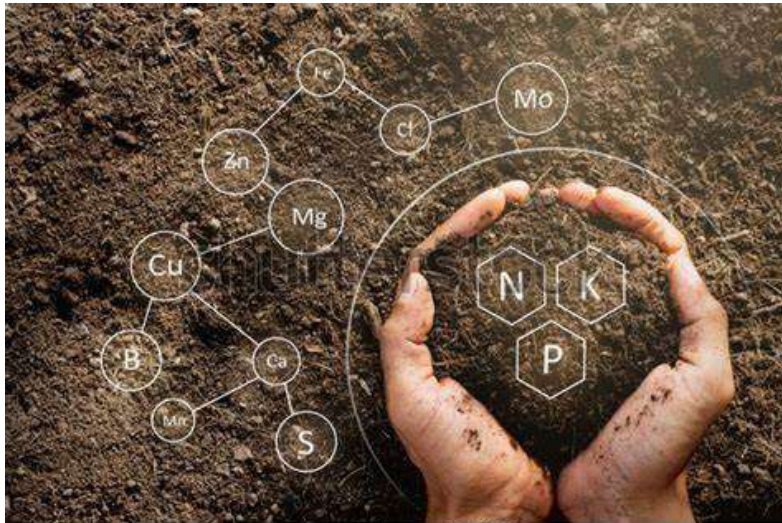


The background features abstract green geometric shapes, including triangles and polygons, in various shades of green, creating a modern and dynamic visual effect.

मृदा

The next level of learning

NAME	ROLL NO	YEAR
SANJEEV KUMAR	2000290120133	3rd
RAHUL SINGH	2000290120122	3rd
PRIYANSHU KUMAR	2000290120118	3rd



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Introduction

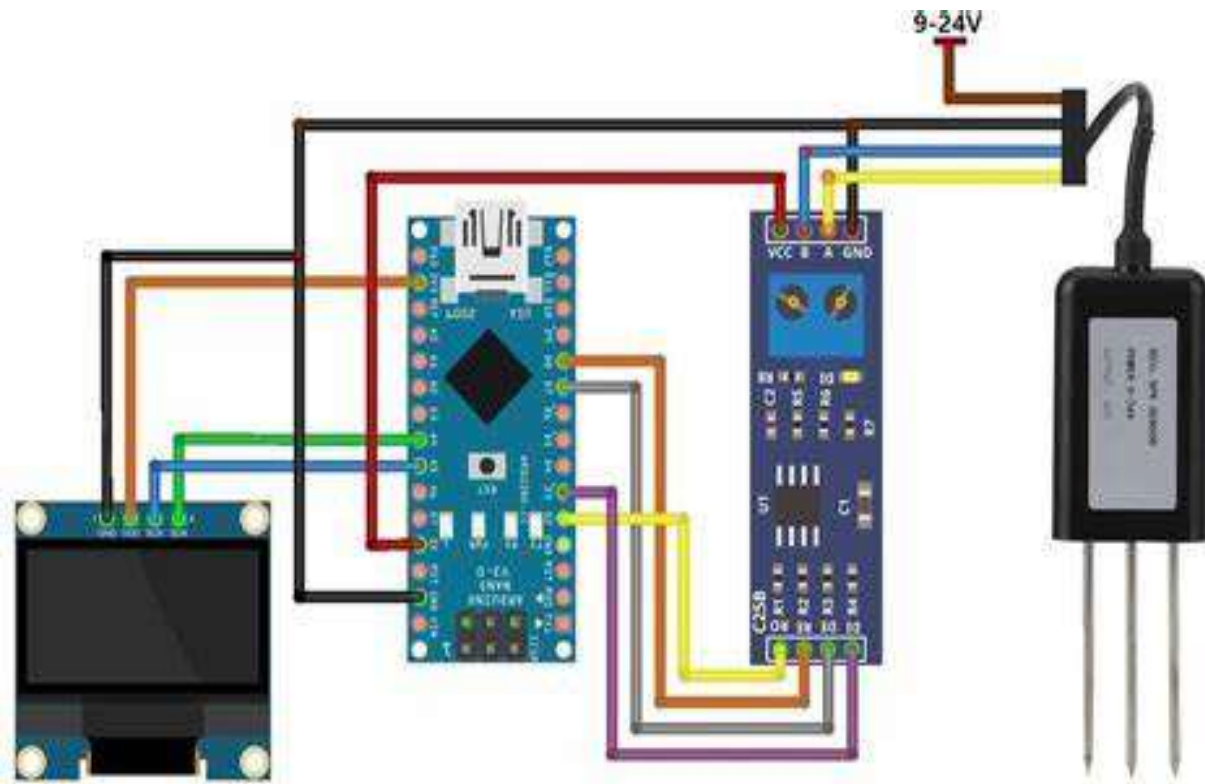
We all know that health of soil is equally important as health of any person. It is more applicable when it comes to “farming”. But it is observed that now a day health of soil doesn’t get enough attention. People care more about only “cash” crops and increasing quantity of the crop. As a result of soil becomes unproductive.

INTRODUCTION OF DEVICE

This device detect the soil primary nutrients like n, p,k . And according to quantity of nutrients and by the help of IOT,machine learning and deep learning .this device guide which crop is best for this particular .

And guide about the nutrients which quantity you need to particular crops.

We linked the app of GROW FARMERS of this device and get the data



Component is used

- 1.Npk sensor
2. Display
- 3.Arduino mega
- 4.rs485 to usb convertor
- 12volt battery

DIMENSION OF PRODUCT

LENGTH- 11cm

BREADTH- 7CM

WEIGHT- 700gm

THICKNESS- 4mm



CROP PREDICTION

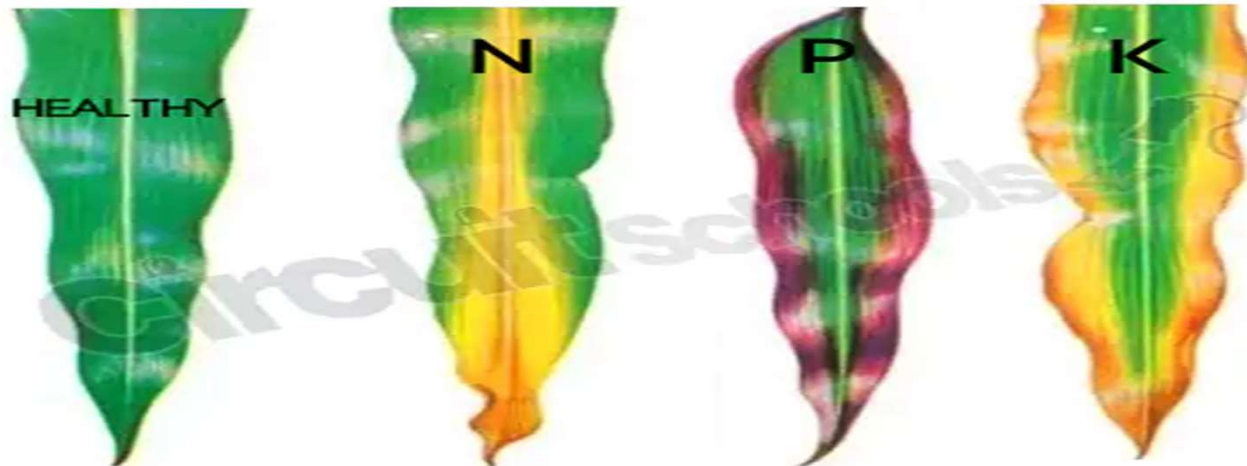
- ▶ > USING DATA OF NPK SENSOR
- ▶ > FIT DATA IN ML MODEL
- ▶ > OUTPUT SHOW ON WEBSITE AND APP



CROP DISEASE PREDICTION

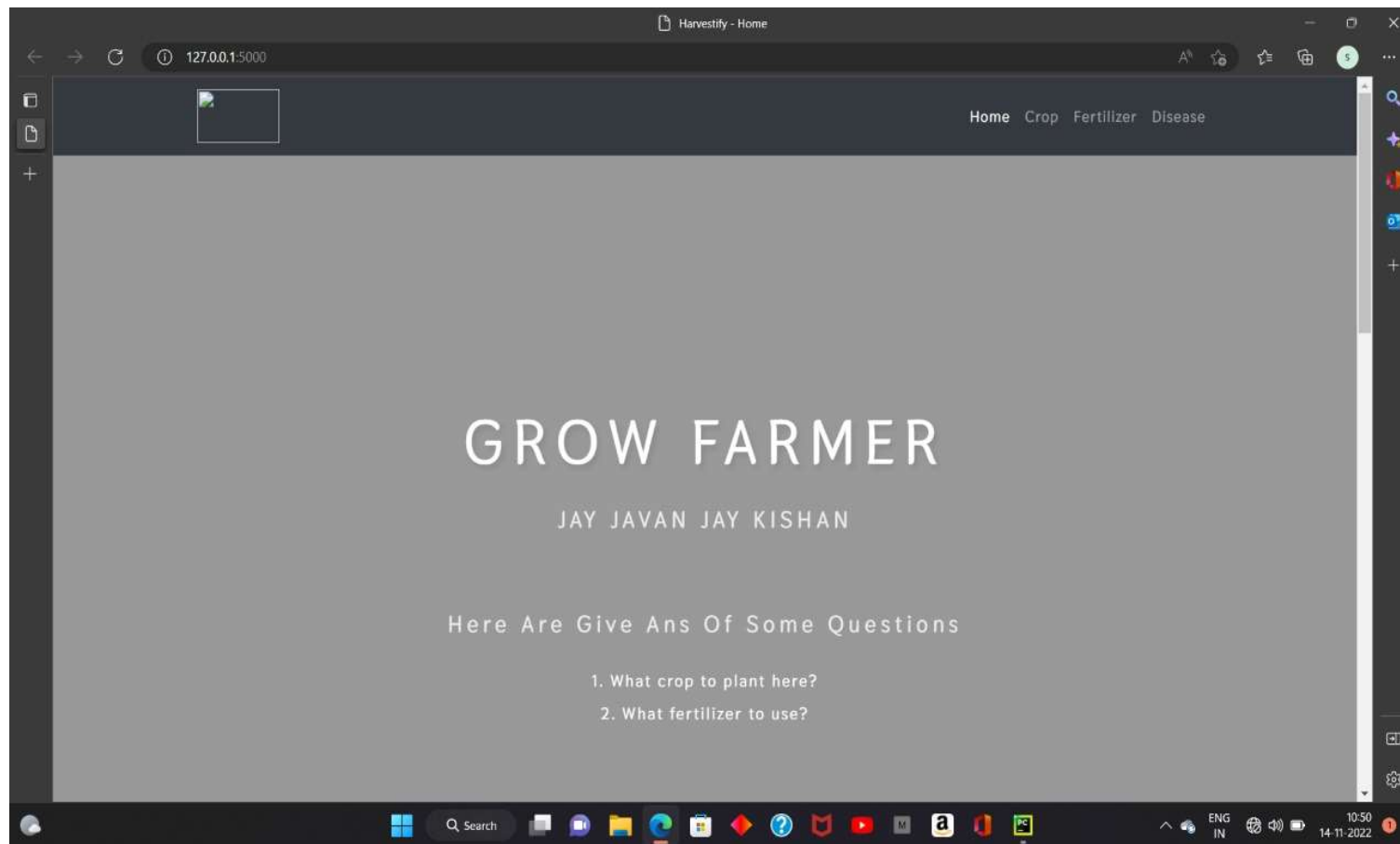
- ▶ > TAKE IMAGE OF PLANTS LEAF
- ▶ > GIVES THE IMAGES TO THE MODEL AND PREDICT THE DISEASE
- ▶ > THE OUTPUT SHOW ON WEBSITE AND APP

NPK DEFICIENCY IN PLANT





ABOUT THE APPLICATION





Our Services

CROP

Recommendation about the type of crops to be cultivated which is suited for the respective conditions

FERTILIZER

Recommendation about the type of fertilizer best suited for the particular soil and the recommended crop

CROP DISEASE

Predicting the name and causes of crop disease and suggestions to cure it

Made by sanjeev lodhi





Benefits

- ▶ Decrease cost of production
- ▶ Helps to increase overall income and livelihood of farmers
- ▶ Helps to increase the production of crop
- ▶ Weather Prediction
- ▶ Farmer Community
- ▶ Cost prediction of crop

THANK YOU

