YOUR AGRI CALCULATOR

KrishiSarthi
(कृषिसारथी)

Scope of work.

KrishiSarthi is a prototype created to help farmers in predicting the overall crop yield during a year.
It performs basic calculations and on the basis of the geographical co-ordinates of an individual, it calculates other conditions needed for better crop yield.

Problem statement.

What crops can be grown at a certain place? What are the geological conditions required? What are they lacking?

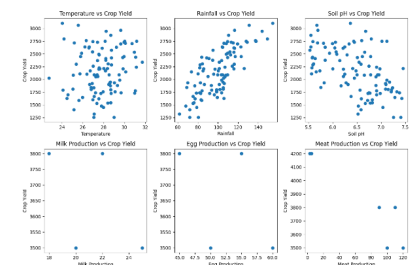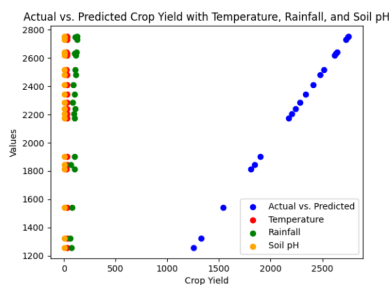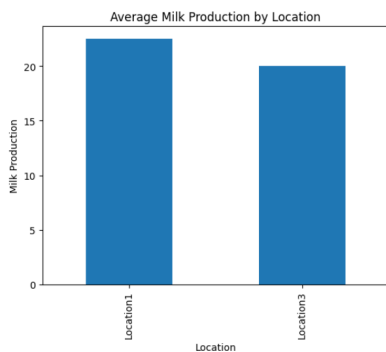Farmers mostly face these type of questions and our project KrishiSarthi will be the answer to all of these.

Solution.

I have created a machine learning model which with the help of an API key loke Google Maps API would find out the longitude and latitude of the person using it.
And then from that it shall perform some basic calculations to find data like Soil pH, Rainfall and temperature and then further from this data, it shall find out the crop yield in tons per hectare for that place.

How can the project be improved?

Introducing more features like milk production, different types of crop will require a more efficient data set which needs to be updated daily for better performance.

Using more trained and better model or using an AI powered model will highly increase the performance leading to faster responses.

Using 5G integrated network to detect exact location of farmers for better results.

YOUR AGRI CALCULATOR

KrishiSarthi
(कृषिसारथी)

Calculating Crop Yield per hectare for a given year with the help of longitudes and latitudes.

1 ## What's Special?

Made at zero cost by a single high school student.

2 ## Why invest on KrishiSarthi?

One of the most promising project for Indian farmers to help them work with ideally improving technology and reducing their work.

3 ## जय जवान, जय किसान!

My background.

Sayandeep Dutta is a high school senior studying at Doon Heritage School, West Bengal, Siliguri. He is highly interested in cybersecurity and has secured many private and government websites. He has been actively participating in hackathons and thus decided to create a solution to help farmers with what they are lacking.

Sayandeep Dutta

You can reach me at:

✉

jduttasayandeep5@gmail.com

WWW

krishisarthi.github.io