Project Name: Crop and Fertilizer Recommendation System

Team Number: B12

Team members and contact information:

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Need

- Traditional farming practiced by farmers do not get crop yield due to less knowledge of soil characteristics and climate conditions.
- For maximizing productivity, quality and yields and conserve the resources being used

Approach

Datasets:
While there is no uniform dataset, there are certain parameters to consider such as soil type, type of crop, rainfall etc.
https://www.kaggle.com/gdabhishek/fertilizer-prediction,
https://www.kaggle.com/atharvaingle/crop-recommen

Benefit

- Provide an efficient framework for data-driven decision making and help farmers decide the right crop to sow based on the appropriate soil and climate conditions
- Efficient input and output
- Better decisions regarding farming

Competition

There is no industry-level alternative to a this system yet, as this topic is still under research due to drastic changes in climate all around the world.

Why is this a good space?

- With the overuse of non-renewable energy resources, rainfall and temperature patterns have been disrupted.
- This brings the machine learning techniques, that have been used to enhance agricultural growth, straight to the user as an app.

Online project folders, documents:

https://drive.google.com/drive/folders/1ghk6ZUzmo5lE3opfDp4-A8arW60Uze-j?usp=sharing

Project Checklist:

To do list / assigned name:	To do list / assigned name:
Dataset collection	All members
EDA (Exploratory Data Analysis)	Priyanka Srinivas
Feature extraction/selection	Thejaswin
Model selection and building	Tanmay and Akash
Training the model	Tanmay and Akash
Model Evaluation	Tanmay and Akash
Building Frontend	Kaustubh
API Development	Priyanka Srinivas
Deployment and Hosting	All members