

FarmEZ

Healthier Food for a Healthier Living

AgriTech and Rural Development

ENTER TEAM NAME

TEAM MEMBERS

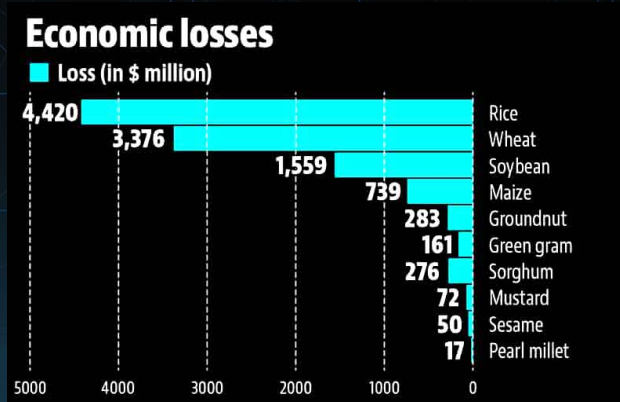
- SATHVIK VITTAL
- SAAD BIN KHALID
- SRUJAN MURALIDHAR
- SUHAS N BHARADWAJ



PROBLEM STATEMENT

- Inability to identify and treat various crop diseases is a major cause of low crop yield.
- About 40% of the global crop production is lost to plant diseases and pests.
- Each year, plant diseases cost the global economy around \$220 billion, and invasive insects around US\$70 billion.

The graph depicts huge losses due to infectious crop yield in India alone!!



SOLUTION

- We have created a UI which the farmer can easily use to get right diagnosis for the crop
- The farmer can either upload a picture or manually enter the crop and it's symptoms.
- An ML model trained on over a 1000 leaf images for image recognition will be deployed.
- The model is used to diagnose the disease as per the input.
- Based on the disease, solutions will be provided for the farmer.





Provide easy access and resources for crop disease symptoms and provide auto diagnosis services .

Image recognition software is used to diagnose the disease

By utilizing our app/website the farmer will be able to self diagnose the crop diseases at a more frugal cost



TECH STACK

- Python
- HTML & CSS
- JavaScript
- React
- Fast API
- Node JS
- Express JS
- Tensorflow / Google Cloud Vision



BUSINESS PROSPECTIVE

- We see great potential of tying up with fungicide / pesticide manufacturers to feature their product for common as well as specific diseases.
- AdSense and affiliate marketing would be our main source of revenue.
- Partnering with the government to provide solutions to farmers
- We plan to offer our services internationally

