



APP NAME : AGRI IQ

TEAM NAME : SMARTICLES

DOMAIN : AGRICULTURE

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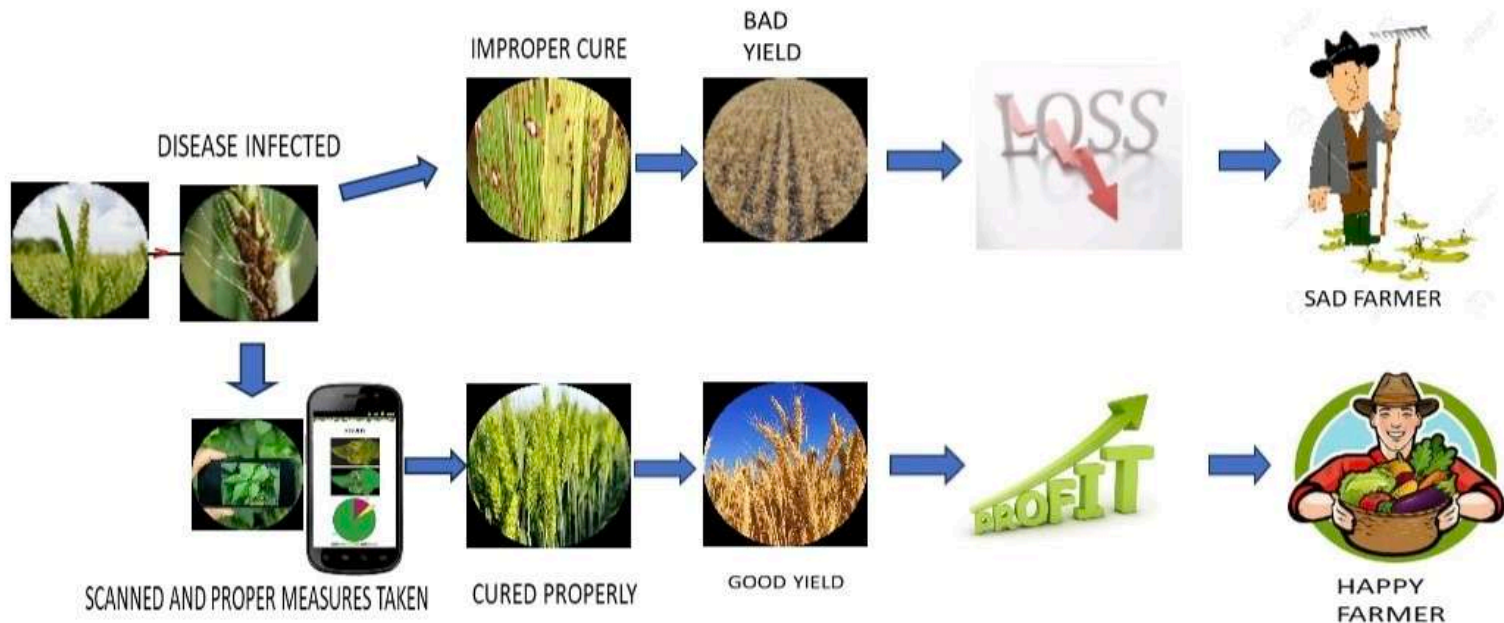
# Photo-based plant/crop disease detection and treatment to identify disease

## APPROACH

- *The world faces a pressing challenges in safeguarding the health of plants/crops. Disease outbreak can devastate the crops, harm ecosystem & effect food security.*
- *A website is developed for the interface part of project .In the website, one can upload the photo of the plant .Upon uploading the photo, the model comes in and detects the plant diseases accurately and provides treatment recommendations.*
- *User can upload the infected plant/crop picture to get the prevention/cure for it through AI.*



# USE CASE



# TENSOR FLOW

- ALGORITHM :

Sequential CNN model algorithm is used -

- # A sequential product is appropriate for a plane stack of layers, where each layer has one tensor input and one tensor output.

Our AI model consists 8 layers, which consists Input layer, Output layer and 6 other layers.

In the input layer the normalization of the image occurs which breaks down into 0-255 pixels which is used to train the AI model and give accurate results.

## WHY TENSOR FLOW ?

- Better Visualisation
- Effective Debugging
- Captures the Model's Training more Accurately
- Better than Pychan

# TECH STACK

- Tensor flow :Open-source machine learning framework developed by google.
- React JS :Java Script library for building user Interfaces.
- Node JS :Java Script runtime for building server applications.
- Keras :High-level deep learning and artificial neural networks.
- Open CV : Computer vision and image processing library.