

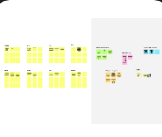


### Fertilizer Recomentation System for Disease Prediction

Agriculture is the most important sector in today's life. Most plants are affected by a wide variety of bacterial and fungal diseases. Diseases on plants placed a major constraint on the production and a major threat to food security. Hence early and accurate identification of plant diseases is essential to ensure high quantity and best quality. In recent years, the number of diseases on plants and the degree of harm caused has increased due to the variation in pathogen varieties, changes in cultivation methods, and inadequate plant protection techniques.

- 10 minutes to prepare
- 1 hour to collaborate
- 2-8 people recommended

Share template feedback



Need some inspiration? See a finished version

#### Before you collaborate

A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

10 minutes

- A Team gathering**  
Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.
- B Set the goal**  
Think about the problem you'll be focusing on solving in the brainstorming session.
- C Learn how to use the facilitation tools**  
Use the Facilitation Superpowers to run a happy and productive session.

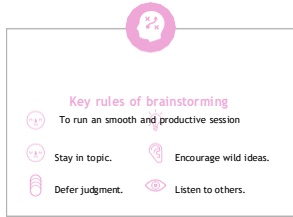
Open article

#### Define your problem statement

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

5 minutes

- 1. Identify the disease on plants using deep learning techniques and to recommend the fertilizers for reducing the diseases.
- 2. Provide website information for recommended fertilizer.



Go for volume. If possible, be visual

#### Brainstorm

Write down any ideas that come to mind that address your problem statement.

10 minutes

TIP  
You can select a sticky note and hit the pencil (switch to sketch) icon to start drawing!

##### ARULESH

Identify the disease

It simplifies the farmers work

Determining best fertilizer

Making revolutionary changes in agriculture field

Website for Fertilizer recommendation

User friendly website

##### MONISADEVE

Smart solution to solve the problem

Better utilization of available resources

Instant solution

Cost of using this application is less

Early detection and management of problem

Portal for farmers

##### MUKESH KUMAR

Pre-trained model for image classification

Improves profit

Build keras image classification model

It will save time

Utilizing of Resources

Improves productivity

##### AARON LUDE JENNITH

Deep learning based mathematical model for detecting diseases

Fertilizer Recommendation

Interactive user interface to upload images

Useful to people with no prior knowledge

Admin can view the recommended fertilizer through gmail

They can find the diseases at early stages

#### Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

20 minutes

Category 1

User friendly website

Website for Fertilizer recommendation

Instant solution

Portal for farmers

Improves profit

It will save time

Category 2

Deep learning based mathematical model for detecting diseases

Interactive user interface to upload images

Early detection and management of problem

Admin can view the recommended fertilizer through gmail

They can find the diseases at early stages

Making revolutionary changes in agriculture field

Category 3

Pre-trained model for image classification

Improves productivity

Build keras image classification model

Better utilization of available resources

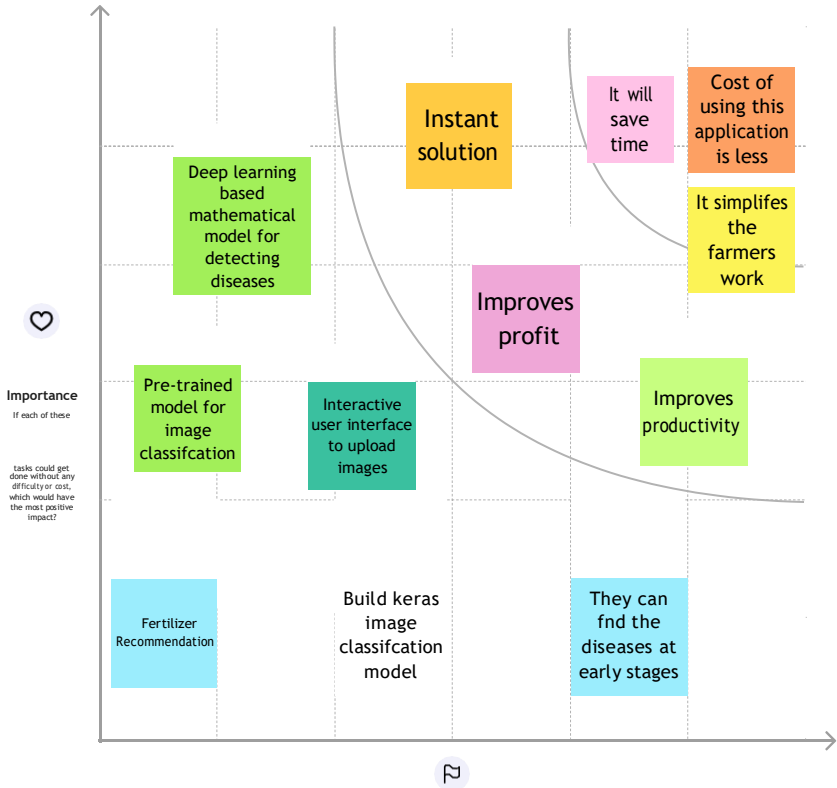
Useful to people with no prior knowledge

Cost of using this application is less

#### Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

20 minutes



#### After you collaborate

You can export the mural as an image or pdf to share with members of your company who might find it helpful.

- Quick add-ons**
  - A Share the mural**  
Share a view link to the mural with stakeholders to keep them in the loop about the outcomes of the session.
  - B Export the mural**  
Export a copy of the mural as a PNG or PDF to attach to emails, include in slides, or save in your drive.

- Keep moving forward**
  - Strategy blueprint**  
Define the components of a new idea or strategy.  
Open the template
  - Customer experience Journey map**  
Understand customer needs, motivations, and obstacles for an experience.  
Open the template
  - Strengths, weaknesses, opportunities & threats**  
Identify strengths, weaknesses, opportunities, and threats (SWOT) to develop a plan.  
Open the template

Share template feedback

Feasibility  
Regardless of their importance, which tasks are more realistic to complete during your brainstorming session?

