

Ideation Phase

Brainstorm & Idea Prioritization

Date	18 October 2022
Team ID	PNT2022TMID01288
Project Name	Project - Fertilizer Recommendation System and Diseases Prediction
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization:

Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions.

Step-1: Team Gathering, Collaboration and Select the Problem Statement

Template

Fertilizers Recommendation 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 has increased. The harm caused has increased. The variation in pathogen varieties, changes in cultivation methods, and inadequate plant protection techniques.

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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](#)

- Team gathering**
Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.
- Set the goal**
Think about the problem you'll be focusing on solving in the brainstorming session.
- 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](#)

problem

How might we [your problem statement]?

Key rules of brainstorming

To run an smooth and productive session

- Stay in topic.
- Encourage wild ideas.
- Defer judgment.
- Listen to others.
- Go for volume.
- If possible, be visual.

Step-2: Brainstorm, Idea Listing and Grouping

2

Brainstorm

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

🕒 10 minutes

Girdharan.L

Personal recommendation system
Faster solution
reduce man power

Identify disease
user friendly website
scan and get the result

Gokul.N

Predict disease in early stage
Recommend Fertilizer
Increase profit

Using of AI
It reduce the work of farmer
More production rate

Akash Deep.V

Uses Deep learning for detecting disease
No need prior knowledge for using
Detect in early stages

portal for farmers
easy to access
uses deep learning and machine learning

Gokulan.N

deep learning is like a human brain
useful for farmers
increase in productivity

reduce recommendation
save time
utilizing of resources

3

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 can break it up into smaller sub-groups.

🕒 20 minutes

Fertilizer recommendation

Identify the disease

Scan the disease

using of machine learning and deep learning

Image procesing

Portal for Farmers

Easy to access

reduce the time efficiency

Increase productivity

Deep learning is like human brain

intractive user interface

instant solution

user friendly interface

Find disease in early stage

Useful to people with no prior knowledge

Make revolutionary changes in agriculture

Step-3: Idea Prioritization

4

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

