Ideation Phase
Brainstorm & Idea Prioritization Template

Date	18 October 2023
Team ID	Team-592955
Project Name	Potato Disease Classification
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization Template:

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.

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

Reference: https://www.mural.co/templates/empathy-map-canvas

Step-1: Team Gathering, Collaboration

Step-2: Select the Problem Statement ,Brainstorm and Idea Listing

1

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

Who:
Farmers

What:
Classifying potato leaf images and Predicting potato leaf disease

When:
To prevent the spread of the disease and reduce crop damage.

Where:
During the detection of potato leaf disease

Why:
The issue need to be fixed because it can have significant negative impacts on farmers, consumers, and the environment and more over to minimize crop loss

PROBLEM

How might we enable farmers to understand and to classify whether potato is healthy or early blight or late blight by checking potato leaf.

2

Brainstorm

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

🕐 10 minutes

Person 1

Data acquisition

Disease program tracking

Real time processing

Person 2

Data preprocessing

Model architecture

Transfer learning

Person 3

Data Augumentation

Hyperparameter tuning

Community Buliding

Person 4

Data Authentication

Error Analysis and loss function

Early warning system
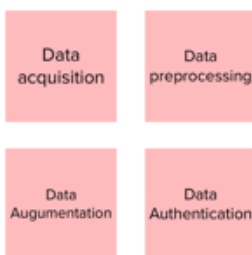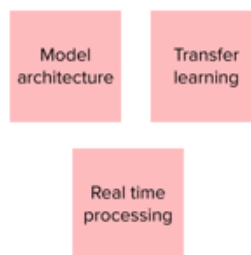
Step-3: Grouping

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.
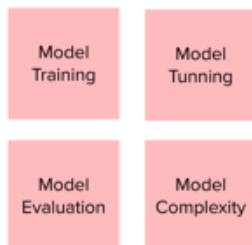
🕐 20 minutes

Data and Preprocessing

Data acquisition	Data preprocessing
Data Augumentation	Data Authentication

Model and Architecture

Model architecture	Transfer learning
Real time processing	

Training and Model Fine-Tuning

Model Training	Model Tunning
Model Evaluation	Model Complexity

Deployment & Observation

Model Deployment	Early warning system
Error Analysis	Loss function

Step-4: Idea Prioritization

Link to our Mural:

**https://app.mural.co/t/potatodiseaseclassification6912/m/potatodiseaseclassification6912/169756
3672584/5ca1b1b1eb0275f91a7a77514eb2e201214b0aa5?sender=u810983eaaa1f4341f1764642**