

## Ideation Phase

### Brainstorm & Idea Prioritization Template

Date	19 September 2022
Team ID	PNT2022TMID24130
Project Name	Detecting Parkinson's Disease using Machine Learning
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.

Reference:




[https://app.mural.co/t/ibmparkinson5394/m/ibmparkinson5394/1663664023274/3b0f10d2\\_23ef83fc0f677777dcc11c02d1b14cb35?sender=u4fe1f0d35c6cff1b67145401](https://app.mural.co/t/ibmparkinson5394/m/ibmparkinson5394/1663664023274/3b0f10d2_23ef83fc0f677777dcc11c02d1b14cb35?sender=u4fe1f0d35c6cff1b67145401)

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



## Brainstorm & idea prioritization


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.

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

[Share template feedback](#)

### 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

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**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](#) →

### 1 Define your problem statement

The problem statement is to overcome the Parkinson's Disease by predicting it at the early stages by using HOG feature descriptor.

 5 minutes







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**PROBLEM**

How might we [your problem statement]?

**Key rules of brainstorming**

To run a 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

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### Brainstorm

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

🕒 10 minutes

#### Syed Asim A

- Understand the problem
- Check for similar datasets
- Design the UI
- Explore the working procedures of HOG
- Can the accuracy be increased
- Understand the distribution of classes
- Explore the accuracy of different models
- Check for the accuracy of the model

#### Yogeshwaran S

- Understand the problem
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#### Rajkumar S

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#### Sreevathsan N S

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- Check for the accuracy of the model

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### 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

#### Working with model

- Can the accuracy be increased
- Explore the working procedures of HOG
- Identify the needs for the model and building it
- Train and evaluate the model for different classes
- Implement the model
- Identify different layers that can be added
- Explore about the building and the deployment process
- Study HOG classifier and get a good idea
- To implement the model
- Train the model
- To check different ways to add layers

#### Dataset

- Check for similar datasets
- To find appropriate dataset and understand it
- Explore and find the suitable dataset
- Import the dataset

#### Visualization

- Analyze the result and visualize it
- Understand the visualization techniques
- Visualize the process done by the model in a user friendly way
- Analyze the UI

#### Accuracy

- Can the accuracy be increased
- Check the increase in accuracy

## Step-3: Idea Prioritization

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### 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

