

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	19 September 2022
Team ID	PNT2022TMID18082
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/ibmparkinson5394/1663664023274/3b0f10d23ef83fc0f677777dcc11c02d1b14cb35?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

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

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

🕒 5 minutes

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

Yashasvi R

Understand the problem

Check for similar datasets

Analyze the UI

Compare Performance Parameters

Can the accuracy be increased

Understand the classification techniques

Research various models and get an idea

Discuss with peers to get an idea

Ankaiah N

Is the accuracy improved after data augmentation

Which features are more for feature selection

Identify the work to be done for the model to build it

Test and implement the model

Implement the model

Check for increase in accuracy

Identify the model to be used

Analyze other options and usage

Implement the model

Chethan Prasasd

Understand the problem and the data set

Understand the data set and the algorithm

Test and implement the model

Compare the model with the existing model

Identify the difference between the two models

Research various models and get an idea

Analyze the result and implement it

Pushkala Sai

Analyze the problem statement

Study the HOG classifier and get a good idea

Check for similar datasets

Implement the model

Train the model

Test the model

Check for increase in accuracy

Implement 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 work 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

