

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	25th September 2022
Team ID	PNT2022TMID36404
Project Name	Classification of Arrhythmia by Using Deep Learning with 2-D ECG Spectral Image Representation
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://app.mural.co/t/jayaengineeringcollege6968/m/jayaengineeringcollege6968/1664786196461/8a84c3c44c1cc06e803b821c5f012b046db1219c?sender=ud2131a8f091fbb39f9d28083>

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

Template



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

➔

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 ➔

1

Classification of Arrhythmia using Deep learning with 2-D ECG Spectral Image Representation

⌚ 5 minutes

PROBLEM

How might we
Classification of Arrhythmia
using Deep learning
with 2-D ECG Spectral
Image Representation?

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

2

Brainstorm

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

10 minutes

Gayathri VS

Study about the disease
CNN

Collecting Samples and preparation for test
Capturing Sinus Rhythms

Iswariya S

How it can be cured
How effective it is

Process of treatment
RNN

Bharathi S

Survey about the disease
Causes and symptoms

KNN
Ensuring the process of diagnosis

Sangeetha S

Consult with a doctor
Progress on major features

LSTM
Looking to try out a new testing approach

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

Who needs this

People who are affected by arrhythmia
Gain patient satisfaction

Efficiency of the model

AI Technologies Needed

CNN
Deep learning
RNN

Quality of treatment

Diagnosis
Consulting a doctor

Detection of 7 types of arrhythmia

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

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](#)

Brainstorm Ideas:

