


Ideation Phase

Brainstorm & Idea Prioritization Template

Date	17 October 2022
Team ID	PNT2022TMID18693
Project Name	Classification of arrhythmia by using deep learning with 2-d ecg spectral image representation
Maximum Marks	4 Marks

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
 3-6 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

- Team gathering**
Define who should participate in the session and send an invite. Share relevant information so you're all aligned.
- Set the goal**
Think about the problem you'll be focusing on talking to the brainstorming session.
- Learn how to use the facilitator's tools**
Use the Facilitator's Superguide 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

How might we [your problem statement]?

The electrocardiogram (ECG) is one of the most extensively employed signals used in the diagnosis and prediction of cardiovascular diseases (CVDs). The ECG signals can capture the heart's rhythmic irregularities, commonly known as arrhythmias. A careful study of ECG signals is crucial for precise diagnosis of patients' acute and chronic heart conditions. In this study we propose a two-dimensional

Key rules of brainstorming

To run an smooth and productive session

- Stay in topic
- Encourage and others
- Defer judgment
- Listen to others
- No too 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

Muthamichan

- The proposed ICD model addresses a 2 degree of ECG signals as shown above
- ECG signals engineering making into manually read digital as shown above
- Recommendation of a computer program for analyzing of these data
- The early diagnosis of cardiac arrhythmia using the ECG
- It can also categorize according to risk levels
- Implemented in Python with the open source library 'Tensorflow'
- The proposed research consists only a single lead ECG signal

Bharathidasan

- Automating processing operation of medical waveform (ECG) individuals
- Detection of irregularities (ECG) based on Artificial Intelligence
- Detection of inferior myocardial infarction using Machine Learning
- Real-time classification layer is followed by a pending layer
- Detection of irregularities (ECG) based on Artificial Intelligence
- ECG-based heart disease detection
- ECG-based heart disease detection
- A fully automated layer to detect pending layer and the next layer

VigneshKumar

- An irregular or abnormal heartbeat
- Pause in about rhythm
- Evaluating the trig tracing
- Based on heart rate
- Recommendation of cardiac abnormal activity result
- ECG data is use feature based on the algorithm
- The output is used for the prediction of cardiac abnormal activity

Vetri selvan

- Recommendation of cardiac abnormal activity result
- ECG data is use feature based on the algorithm
- The output is used for the prediction of cardiac abnormal activity

3 Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. In the last 10 minutes, 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.

10 minutes

What went well..

- Timeline
- collaboration
- suggestions
- Security

What didn't go well...

- Negative
- Fearless

Action..

- Achieve the task

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.

10 minutes

