

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	19 September 2022
Team ID	PNT2022TMID19938
Project Name	Classification of Arrhythmia by Using Deep Learning with 2-D ECG Spectral Image Representation
Maximum 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.

Brainstorm

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

Instructions

Nihanth P

Can use a small sensor to capture the ECG signal from the machine to scan the 2D signal.

Can use algorithms to separate the signal from the noise.

Can use algorithms to separate the signal from the noise.

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Can use algorithms to separate the signal from the noise.

Sakthi Maruvarti G

Can use algorithms to separate the signal from the noise.

Can use algorithms to separate the signal from the noise.

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Can use algorithms to separate the signal from the noise.

Nithishkumar P

Can use algorithms to separate the signal from the noise.

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Prasanna Balaji R

Can use algorithms to separate the signal from the noise.

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Can use algorithms to separate the signal from the noise.

Can use algorithms to separate the signal from the noise.

Nivethitha M

Can use algorithms to separate the signal from the noise.

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Can use algorithms to separate the signal from the noise.

Group Ideas

Turns sharing your ideas while clustering similar or related notes as you go. Once all 2557 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.

Instructions

Pattern detection algorithms

We can use algorithms for pattern detection.

The already available algorithms are structural algorithms.

Can make use of back propagation algorithm.

ML and AI can be used to develop.

Sensors

Contact image sensors.

Used in standard cameras.

Mount in direct contact.

Object to be scanned.

Others

Use optimum data set.

The detailed results can be printed as dashboard.

Use a better camera to get clear images.

Prioritize

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.

Instructions

Importance

Has the idea been implemented before?

Is the idea new?

Is the idea feasible?

Is the idea important?

Feasibility

Is the idea feasible?

Is the idea important?

Is the idea new?

Is the idea implemented before?