

Define your problem statement

Arrhythmia is a representative type of CVD that refers to any irregular change from the normal heart rhythms. There are several types of arrhythmia including atrial fibrillation, premature contraction, ventricular fibrillation, and tachycardia. Although a single arrhythmia heartbeat may not have a serious impact on life, continuous arrhythmia beats can result in fatal circumstances. In this project, we build an effective electrocardiogram (ECG) arrhythmia classification method using a convolutional neural network (CNN), in which we classify ECG into seven categories, one being normal and the other six being different types of arrhythmia using deep two-dimensional CNN with grayscale ECG images. We are creating a web application where the user selects the image which is to be classified. The image is fed into the model that is trained and the cited class will be displayed on the webpage.

Key rules of brainstorming

To run an smooth and productive session



Stay in topic.



Encourage wild ideas.



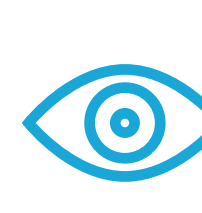
Defer judgment.



Listen to others.



Go for volume.



If possible, be visual.

Brainstorm

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

 10 minutes

Divya

Classifying arrhythmia	Easy detection	Get detailed information
User friendly application		

Dhuneesha

Easy and fast analysis	Accurate results	Enhancement of features can be done if required
Can be used by anyone		

Nivedha

No need for experts	Easier and faster than traditional methods	Maintenance and Support
Safe storage of data		

Preethi

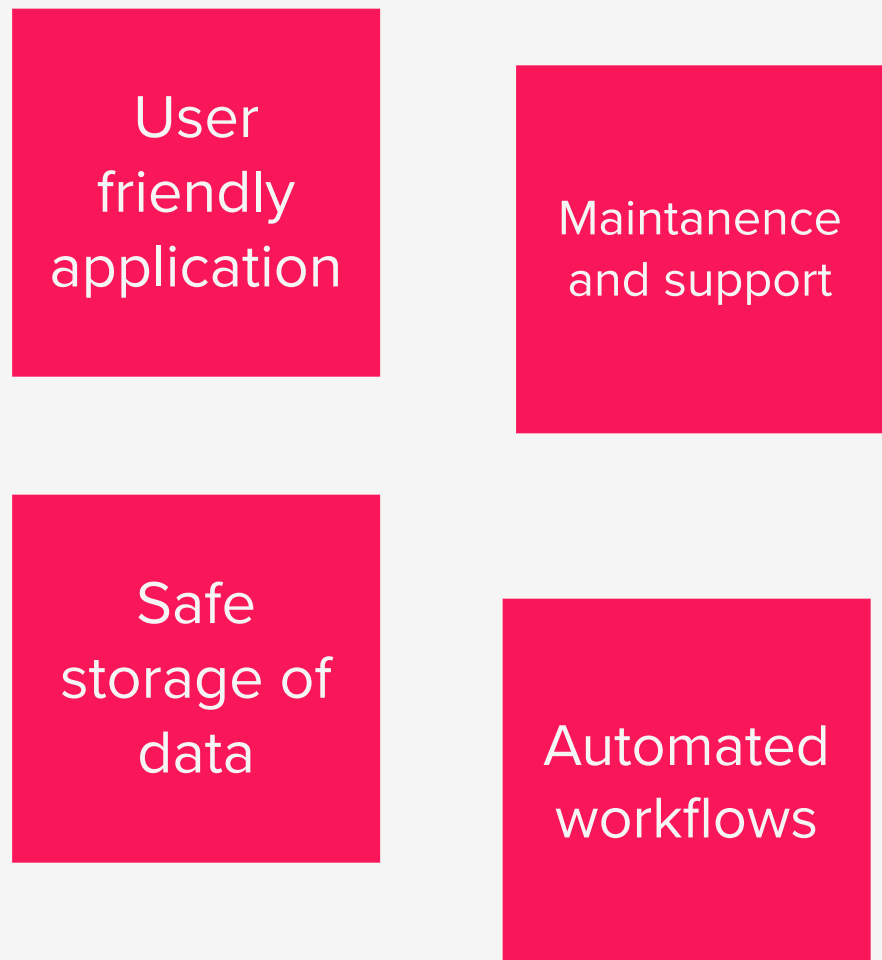
Automated workflows	Accurate observation of results	Easy download of reports
Create a tour guide for the application		

Group ideas

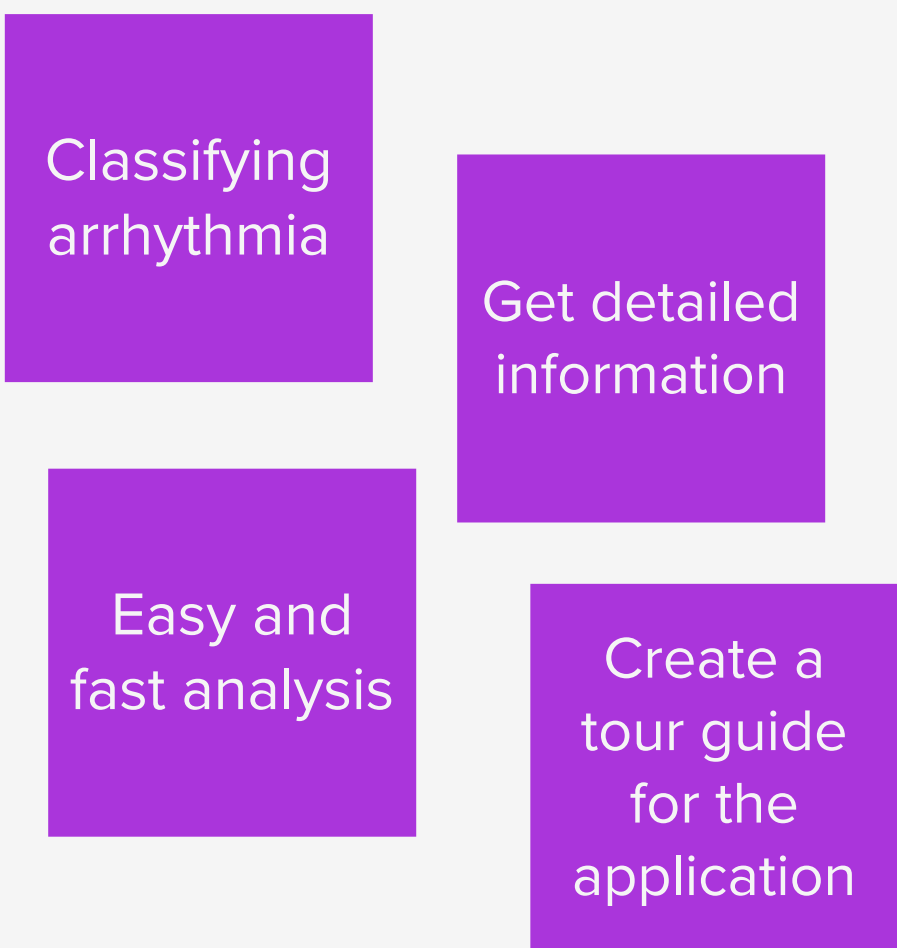
Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

 20 minutes

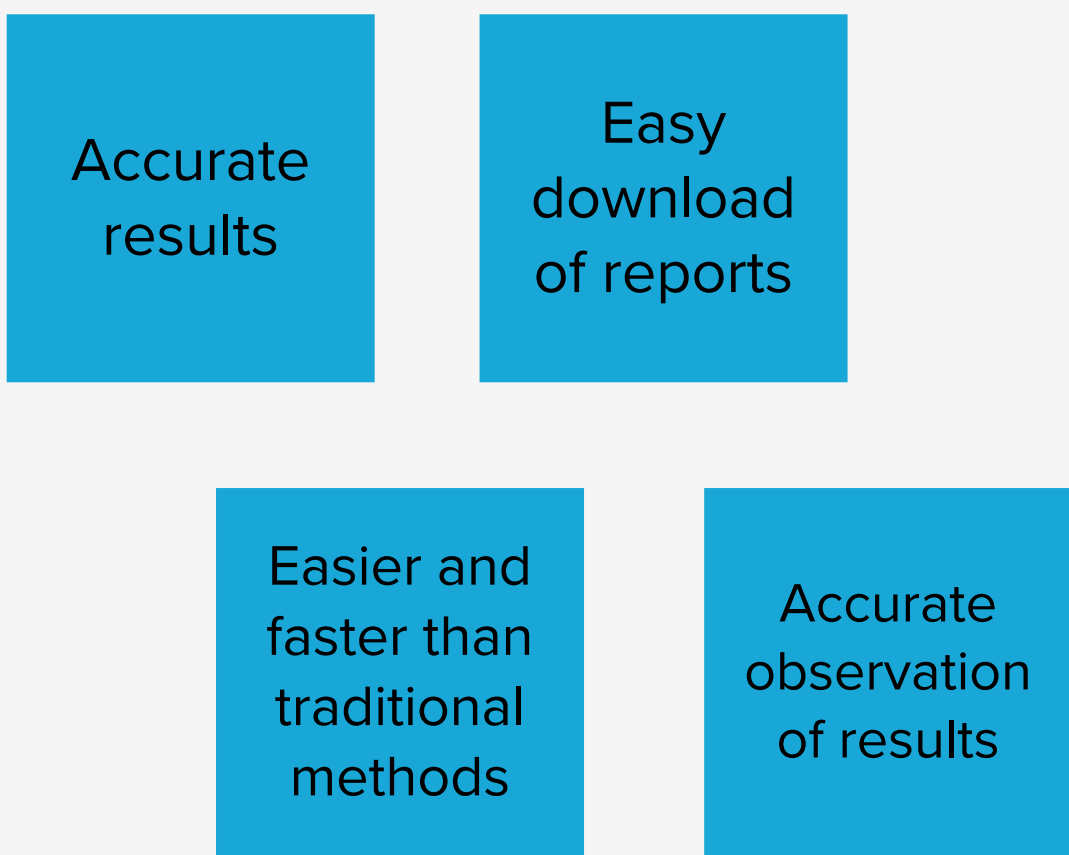
Features



Applications



Results



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

