Project Title:

Classification of Arrhythmia by Using Deep Learning with 2-D ECG Spectral Image Representation

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Define CS, fit into CC

1. CUSTOMER SEGMENT(S)

cs

Majorly people with heart disease.

Families, work places, schools and colleges.

Remote monitoring of a patient's health status.

Remote diagnosis and disease prevention.

Ability to connect medical devices.

6. CUSTOMER CONSTRAINTS



Lack of consistency and interest towards health related apps.

Lack of time management for personal and professional life.

5. AVAILABLE SOLUTIONS



The detection is quite faster and accurate.

There lies no free application for this analysis and this could benefit through prevention (i.e.) insisting for a check-up.

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2. JOBS-TO-BE-DONE / PROBLEMS

J&P

Reading ECG and prediction of the arrhythmia type.

Giving health challenges supporting a healthy and a disease-free heart.

Regular check-ups through notifications.

9. PROBLEM ROOT CAUSE

RC

The root cause of Arrhythmia is High blood

pressure, heart surgery,

Thyroid disease, etc which

are common in 20 CE

people. It is better to prevent

through regular check-ups

and good lifestyle, than to cure.

7. BEHAVIOUR

BE

The customer need to register/ login, scan the ECG or take a photo and upload, the system detects the arrhythmia type, if found.

If the result is same for many times, it could give an alert for check-up.

Suggests for health challenges.

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3. TRIGGERS



Challenges flowing through the app trigger the customer for regular usage.

4. EMOTIONS: BEFORE / AFTER



Fear of getting checked for disease, spending to diagnose and time doing all these things.

Making use of this system can make them relieved and healthier.

10. YOUR SOLUTION



The solution fits medical professionals and also to public to detect arrhythmia accurately through ECG and Deep Learning algorithms.

The market competition is lower and customer satisfaction could be higher with the enhancements added to the application.

This ensures a healthier future generation who could balance their lives.

8. CHANNELS of BEHAVIOUR



8.1 ONLINE

Logging in, uploading of ECR, prediction of arrhythmia type if predicted.

8.2 OFFLINE

They would take up heart-related health challenges.

If predicted with Arrhythmia, go for confirmation with a Cardiologist.