Problem-Solution fit canvas 2.0

1. CUSTOMER SEGMENT(S) — CS

Mrs. Liu is a 86-years old female.she is a cardiologist

6. CUSTOMER CONSTRAINTS — CC

1.Detection of irregular heartbeats from ECG signals is a significant task for the automatic diagnosis of cardiovascular disease.

2.limited data transfer.

3.Limitations of the Related Work.

5. AVAILABLE SOLUTIONS — AS

1.The proposed 2-D CNN model attained better accuracy, sensitivity, and specificity than the FFNN model, which classified only four kinds of arrhythmia.

2.They found highest accuracy rate 99.3% by using k-NN classification by feeding genetic algorithm features.

2. PROBLEMS/PAINS — P&P

1.Training and testing sets, they transformed one dimensional ECG signals to two-dimensional image and classified the ECG data into five classes with 99.21% average accuracy.

2.there are a lot of problems like loss of data, data size limitations, redundancy.

3 .The speed of the convergence was very slow.

9. PROBLEM ROOT CAUSE — RC

1.Cost is high.

2.Lower accuracy.

3.Slow process and data can be changed.

7. BEHAVIOUR — BE

1.my customers are lab field or clinical field oriented.

2.similarly doctors also da iseses can be attacked.

3. TRIGGERS — TR

1.customers are very disappointed in the delay of record so customer needed a neary another clinic.

2.Nearby hospitals are easy and fast in cardiology record.

4. EMOTIONS: BEFORE / AFTER — EM

1.Chest pain and discomfort.
2.Problem with the electrical signals in your heart. 3.Patient feeling good.

10. YOUR SOLUTION — SL

1.They found highest accuracy rate 99.3% by using k-NN classification by feeding genetic algorithm features

2.They recorded ECG signals in two different situationstechnique on the WEKA software for classification and they utilized MIT-BIH arrhythmia database. During classification they found accuracy rate of 88.49%

8.CHANNELS of BEHAVIOUR — CH

8.1 ONLINE

Produced Ad in the social medias and website to reach a people

8.2 OFFLINE

Direct visit on the customer or poster or cutout to reach them