

Project Title: Classification of arrhythmia by using deep learning with 2-d ecg spectral image representation

Solution Fit Template

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<div>1. CUSTOMER SEGMENT(S)<div>CS</div></div> <div>A teacher who have heart disease but she dont have time to go hospital</div>	<div>6. CUSTOMER CONSTRAINTS<div>CC</div></div> <div>Identify heart disease because of several contributory risk factors such as diabetes, high blood pressure, high cholesterol, abnormal pulse rate</div>	<div>5. AVAILABLE SOLUTIONS<div>AS</div></div> <div>Healthy lifestyle habits such as eating a low-fat, low-salt diet, getting regular exercise and good sleep, and not smoking</div>
<div>2. JOBS-TO-BE-DONE / PROBLEMS<div>JB</div></div> <div>Find heart problems and cure the diseases</div>	<div>9. PROBLEM ROOT CAUSE<div>RC</div></div> <div>Risk factors include a poor diet, lack of exercise, obesity and smoking. Healthy lifestyle choices can help lower the risk of atherosclerosis</div>	<div>7. BEHAVIOUR<div>BE</div></div> <div>Protect you from type 2 diabetes, asthma, joint pain, and a number of other chronic diseases and conditions</div>

<div>3. TRIGGERS<div>TR</div></div> <div>Symptoms : Symptoms may include chest pain. nausea. shortness of breath. sweating. dizziness, palpitations.</div>	<div>10. YOUR SOLUTION<div>SL</div></div> <div>Vitamin C. Arrhythmias and other heart conditions are associated with oxidant stress and inflammation. Antioxidants like vitamin C and vitamin E appear to be effective in reducing these. You can use vitamin C to treat colds, the flu, and even cancer, and it can also help with arrhythmia.</div>	<div>8. CHANNELS BEHAVIOR<div>CH</div></div> <div>8.1 ONLINE Customer will Find their heart disease online rather than going hospital</div> <div>8.2 OFFLINE Customer will collect their ecg image offline going hospital</div>
<div>4. EMOTIONS: BEFORE / AFTER<div>EM</div></div> <div>Before : Especially negative emotions, such as hostility, anger, depression and anxiety, precipitate coronary heart disease</div> <div>After : Temporary feelings of sadness and a depressed mood are common for the first few weeks.</div>		