

Ideation Phase

Define the Problem Statements

Date	19 September 2022
Team ID	PNT2022TMID35847
Project Name	Classification of Arrhythmia by Using Deep Learning with 2-D ECG Spectral Image Representation
Maximum Marks	2 Marks

Who does the problem affect?	Patients diagnosed with Cardio-vascular diseases
What are the boundaries of the problem?	Hospitals, clinics, specialities
What is the issue?	<p>Arrhythmia is a representative type of CVD that refers to any irregular change from the normal heart rhythms which could lead to cardiovascular disorders.</p> <p>Our solution could give Faster and more accurate detection. If the problem is fixed, it could detect at early stages of Arrhythmia If not solved, risk factor is high for patients</p>
When does the issue occur?	When Patient has Chest pain or abnormal heartbeat (Arrhythmia)
Where is the issue occurring?	It concerns the health of the patients – more specifically the heart and allied organs
Why is it important that we fix the problem?	<p>The early detection of Arrhythmia gives better understanding of disease causes, initiates therapeutic interventions and enables developing appropriate treatments.</p> <p>Our solution is going to be faster and more accurate.</p>