Project Design Phase-1

Proposed Solution

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ythmia by using deep G Spectral Image

Proposed Solution:

S.NO	PARAMETER	DESCRIPTION
1	Problem Statement	 The developing application must be very efficient and useful for the user friendly.
		 The agenda of this proposed system is to detect Cardiovascular diseases using the 2-D ECG Spectral image.
2	Idea/solution description	 This will caution them about the irregular pattern of their heartbeat(Arrhythmia).
		We are proposing that the automated detection of such pattern to clinical consultation.
3	Novelty/uniqueness	 Spectrograms(2-D images) are employed which are generated by the 1-D ECG signal using STFT. In addition, data augmentation was used for the 2-D image representation of ECG signals.
		 The method consists of five steps signal processing, generation of spectrograms, augmentation of data, extraction features from the data(using CNN model), classification based on features.
4	Social Impact/Customer Satisfaction	The main purpose of this application is to make people awareness on their general health. Can collaborate with dectors and bospitals.
5	Business model	 Can collaborate with doctors and hospitals. By approaching the government to organize awareness camps.
		2. By collaborating with diagnosing centers.

	Scalability of the solution	 It is very essential for everyone to keep a track on individuals health.
		2. It helps in monitoring one's health.