

ABSTRACT

Classification of Cardiac Arrhythmias Patients

Cardiac Arrhythmia, also known as irregular heartbeat or cardiac Dysthymia, is a group of conditions where the heartbeat is irregular, too slow, or too fast. An arrhythmia is caused by a disruption of your heart's normal electrical system, which regulates your heart rate and heart rhythm.

In this project, we aim to classify heart arrhythmias patients among 16 different classes based on ECG (Electrocardiography) data. The methodology and the outcomes of developing a Machine Learning system that is capable of classifying a patient into 16 different cardiac arrhythmic categories. Various Machine Learning algorithms like SVM, Logistic Regression, KNN, Random Forest and Decision Trees can be used to classify the patients.

This work has great potential to serve the medicine industry. This work can be of immense importance to researchers who are exploring various techniques to capture the key pre-informers of a potential cardiac disease, well before it is too late.

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