

Project Title : Classification of Arrhythmia by Using Deep Learning with 2-D ECG Spectral Image Representation.

Team Leader: Anandakumar.A

Team Mates: Brama.S

Hari Deevagan.M

Praveen .T

College Name : NPR College of Engineering & Technology

Faculty Mentor : Mrs.C.Kalpana

Project Objectives

- The objective of our project to design a 2-D Convolutional Neural Network(CNN) model for the classification of ECG signals into eight – classes.
- The 2-D CNN Model consisting of four convolutional layers and four pooling layers is designed for extracting robust features.
- Deep CNN has proven useful in enhancing the accuracy of diagnosis algorithm in the fusion of modern machine learning technologies.
- In our project a state-of-the-art-average classification accuracy of 99% .
- Our proposed scheme objective can help experts diagnose CVD's by referring to the automated classification of ECG signals.