Project Objectives

Date	11 November 2022
Team ID	PNT2022TMID26984
Project Name	Project - Classification of Arrhythmia by Using Deep Learning with 2-D ECG Spectral Image Representation

From this project development,

- ➔ We came to know about the fundamental concepts and techniques of domain Artificial Intelligence such as Artificial Neural Network, Convolution Neural Networks, Recurrent Neural Network, Long short-term memory, etc.
- ➔ We were experienced how to collect datasets according to the needs of the model. In the case of our project, its images could be collected from various sources available on the internet.
- ➔ The heart piece of application building, that is, model building using Sequential is being thought, practiced, and executed through google collab, anaconda, and other IDEs.
- ➔ Python's Keras is a deep learning API running on Tensorflow to make it possible to experiment with its capabilities and also NumPy, pandas, scikit-learn also learned.
- ➔ The datasets collected, that is, images in our case are thought to be preprocessed before giving it to train and test the model being built through Sequential. This is done because most of the data that are available in the real world are unstructured data.
- ➔ The objective of knowing how to build a web application using the Flask framework is also successfully completed by building our project with Flask.