# Classification Of Arrhythmia By Using Deep Learning With 2-D ECG Spectral Image Representation

### **MODEL BUILDING**

#### IMPORTING THE MODEL BUILDING LIBRARIES

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### IMPORTING THE MODEL BUILDING LIBRARIES:

Import the libraries that are required to initialize the neural network layer, create and add different layers to the neural network model. The below libraries are imported and executed.

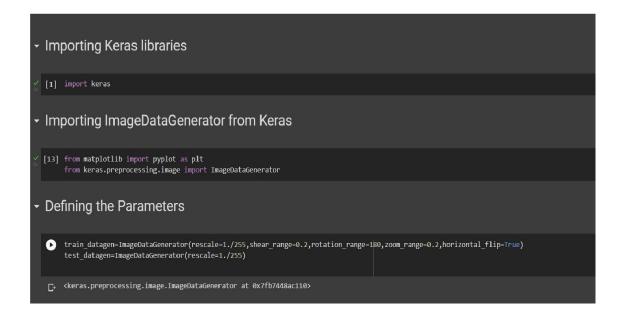
11/7/22, 12:35 AM Untitled8.ipynb - Colaboratory

Importing Keras libraries

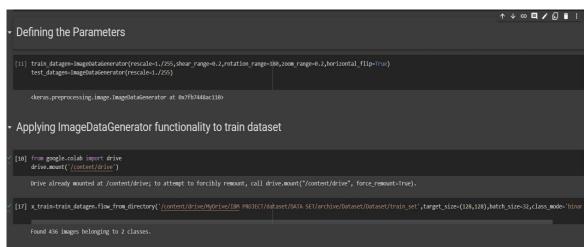
import keras

Importing ImageDataGenerator from Keras

from keras.preprocessing.image import ImageDataGenerator



## **APPLYING ImageDataGenerator to train dataset:**



plyflow from directory () methodfor Train folder.

## **APPLYING ImageDataGenerator to test dataset:**

Applying the **flow from directory ()** methodfortest folder.



## **IMPORTING MODEL BUILDING LIBRARIES:**

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Main code - Colaboratory

Importing Model Building Libraries

```
#to define the linear Initialisation import sequential
from keras.models import Sequential
#to add layers import Dense
from keras.layers import Dense
#to create Convolutional kernel import convolution2D
from keras.layers import Convolution2D
#import Maxpooling layer
from keras.layers import MaxPooling2D
#import flatten layer
from keras.layers import Flatten
import warnings
warnings.filterwarnings('ignore')
```