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

MODEL BUILDING

IMPORTING THE MODEL BUILDING LIBRARIES

Team ID	PNT2022TMID52395
Project Name	Classification Of Arrhythmia By Using Deep Learning With 2-D ECG Spectral Image Representation

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.

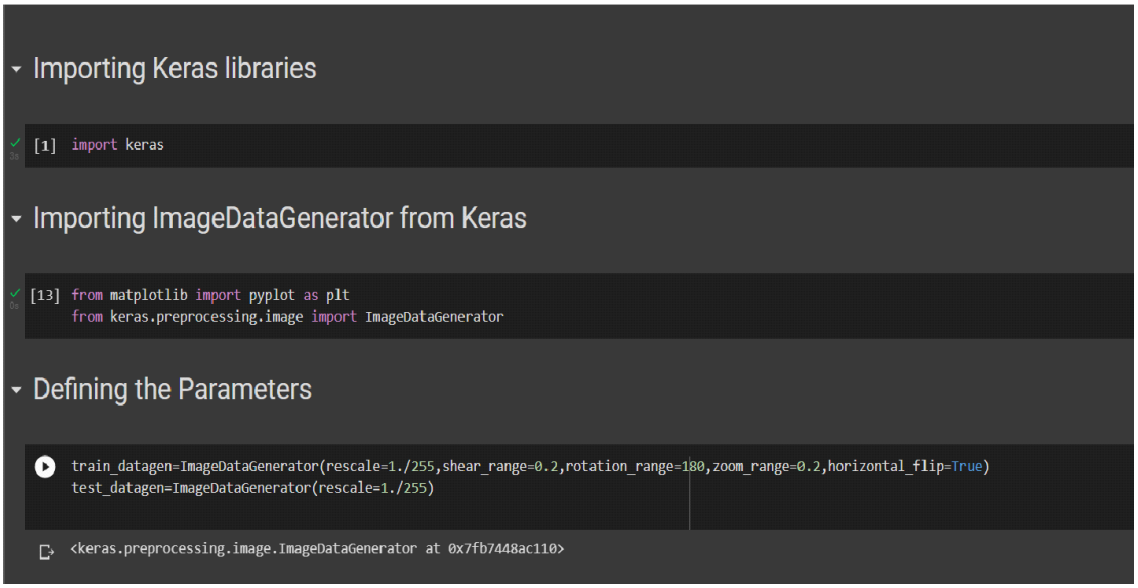
11/7/22, 12:35 AM Untitled8.ipynb - Colaboratory

Importing Keras libraries

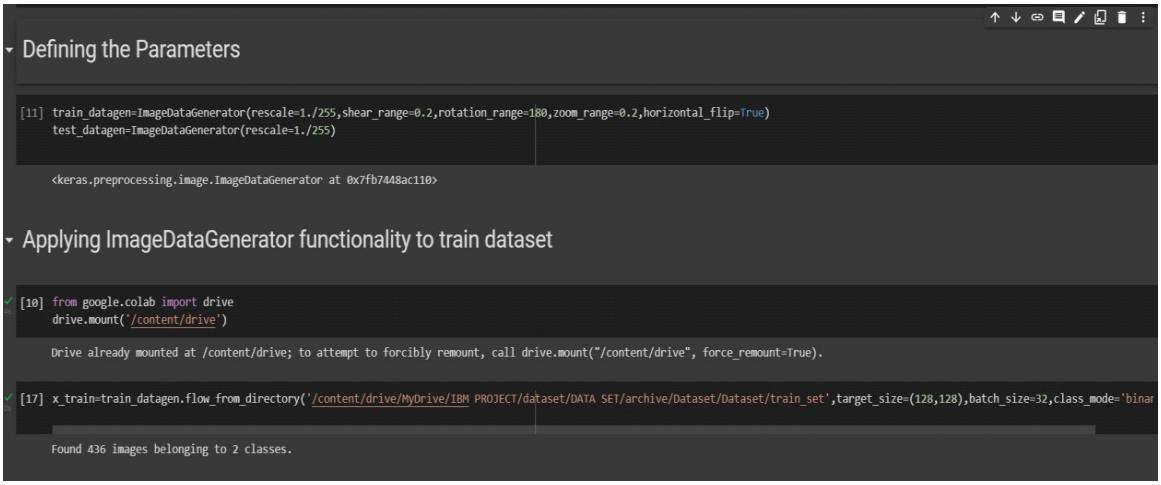
```
import keras
```

Importing ImageDataGenerator from Keras

```
from keras.preprocessing.image import ImageDataGenerator
```



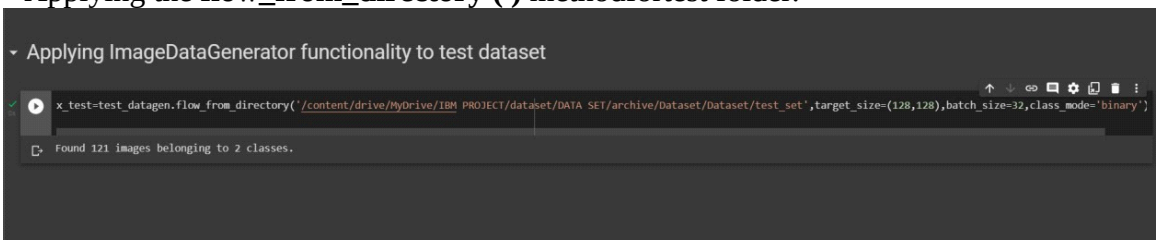
APPLYING ImageDataGenerator to train dataset:



ply**flow_from_directory ( )**methodfor Train folder.

APPLYING ImageDataGenerator to test dataset:

Applying the **flow_from_directory ( )** methodfortest folder.



IMPORTING MODEL BUILDING LIBRARIES:

11/8/22, 1:16 AM 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')
```