

Sprint-2

Image Preprocessing & Model Building

Date	7 November2022
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ProjectName	Classification of Arrhythmia by Using DeepLearning with 2-D ECG Spectral ImageRepresentatio

Image Pre-processing includes the following main tasks:

- 1.Import ImageDataGenerator Library.
- 2.Configure ImageDataGenerator Class.
- 3.Applying ImageDataGenerator functionality to the trainset and test set.

Note: The ImageDataGenerator accepts the original data, randomly transforms it, and returns only the new, transformed data.

Model Building:

We are ready with the augmented and pre-processed image data, Lets begin our model building, this activity includes the following steps:

- 1.Import the model building Libraries.
- 2.Initializing the model
- 3.Adding CNN Layers
- 4.Adding Hidden Layer
- 5.Adding Output Layer
- 6.Configure the Learning Process
- 7.Training and testing the model
- 8.Saving the model