Project Development Phase
Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID35734
Project Name	Classification of Arrhythmia by Using Deep Learning with 2-D ECG Spectral Image Representation
Maximum Marks	10 Marks

Model Performance Testing:

S.No.	Parameter	Values	Screenshot
1.	Model Summary	-	
2.	Accuracy	Training Accuracy - 0.9639 Validation Accuracy - 0.8794	

MODEL SUMMARY

```
Model: "sequential_5"
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 Layer (type)                Output Shape              Param #
=================================================================
 conv2d_11 (Conv2D)          (None, 128, 128, 32)      896

 max_pooling2d_5 (MaxPooling  (None, 64, 64, 32)       0
 2D)

 conv2d_12 (Conv2D)          (None, 64, 64, 32)        9248

 max_pooling2d_6 (MaxPooling  (None, 32, 32, 32)       0
 2D)

 flatten_3 (Flatten)         (None, 32768)             0

 dropout_3 (Dropout)         (None, 32768)             0

 dense_5 (Dense)             (None, 35)                1146915

 dense_6 (Dense)             (None, 6)                 216

=================================================================
Total params: 1,157,275
Trainable params: 1,157,275
Non-trainable params: 0
_________________________________________________________________
```

ACCURACY

```
Epoch 25/25
480/480 [==============================] - 73s 153ms/step - loss: 0.1205 - accuracy: 0.9639 - val_loss: 0.4849 - val_accuracy:
0.8794
```

Performance Metric	Value
Training Accuracy	0.9639
Training Loss	0.1205
Validation Accuracy	0.8794
Validation Loss	0.4849