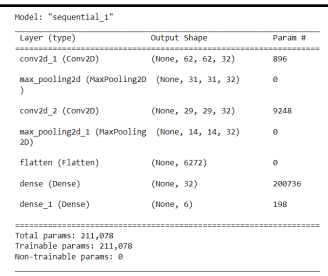
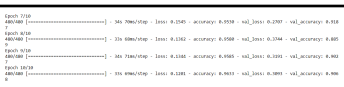
Project Development Phase
Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID17913
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 - 96% Validation Accuracy - 90%	

Model Summary:

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Model: "sequential_1"
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 Layer (type)                Output Shape              Param #
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 conv2d_1 (Conv2D)           (None, 62, 62, 32)        896

 max_pooling2d (MaxPooling2D  (None, 31, 31, 32)       0
 )

 conv2d_2 (Conv2D)           (None, 29, 29, 32)        9248

 max_pooling2d_1 (MaxPooling  (None, 14, 14, 32)       0
 2D)

 flatten (Flatten)           (None, 6272)              0

 dense (Dense)               (None, 32)                200736

 dense_1 (Dense)             (None, 6)                 198

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Total params: 211,078
Trainable params: 211,078
Non-trainable params: 0
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```

Model Accuracy:

```
Epoch 7/10
480/480 [==============================] - 34s 70ms/step - loss: 0.1545 - accuracy: 0.9530 - val_loss: 0.2707 - val_accuracy: 0.918
7
Epoch 8/10
480/480 [==============================] - 33s 68ms/step - loss: 0.1362 - accuracy: 0.9580 - val_loss: 0.3744 - val_accuracy: 0.885
9
Epoch 9/10
480/480 [==============================] - 34s 71ms/step - loss: 0.1344 - accuracy: 0.9585 - val_loss: 0.3191 - val_accuracy: 0.902
7
Epoch 10/10
480/480 [==============================] - 33s 69ms/step - loss: 0.1201 - accuracy: 0.9633 - val_loss: 0.3093 - val_accuracy: 0.906
8
```