

...

Model: "sequential_1"

Layer (type)	Output Shape	Param #
=====		
conv2d_3 (Conv2D)	(None, 8, 29, 32)	320
max_pooling2d_3 (MaxPooling2D)	(None, 4, 14, 32)	0
dropout_4 (Dropout)	(None, 4, 14, 32)	0
conv2d_4 (Conv2D)	(None, 4, 14, 64)	18496
max_pooling2d_4 (MaxPooling2D)	(None, 2, 7, 64)	0
dropout_5 (Dropout)	(None, 2, 7, 64)	0
conv2d_5 (Conv2D)	(None, 2, 7, 128)	73856
max_pooling2d_5 (MaxPooling2D)	(None, 1, 3, 128)	0
dropout_6 (Dropout)	(None, 1, 3, 128)	0

...

Non-trainable params: 0 (0.00 Byte)

X_train shape: (1651, 10, 31, 1), y_train shape: (1651,)

X_val shape: (413, 10, 31, 1), y_val shape: (413,)

Output is truncated. View as a [scrollable element](#) or open in a [text editor](#). Adjust cell output [settings](#)...

65/65 [-----] - 1s 22ms/step - loss: 0.6832 - accuracy: 0.5601 - val_loss: 0.6743 - val_accuracy: 0.5981

Epoch 11/200

65/65 [=====] - 1s 23ms/step - loss: 0.6808 - accuracy: 0.5552 - val_loss: 0.6670 - val_accuracy: 0.5714

Epoch 12/200

65/65 [=====] - 1s 22ms/step - loss: 0.6831 - accuracy: 0.5693 - val_loss: 0.6691 - val_accuracy: 0.6053

Epoch 13/200

...

65/65 [=====] - 2s 37ms/step - loss: 0.4371 - accuracy: 0.7873 - val_loss: 0.2494 - val_accuracy: 0.9613

3/3 [=====] - 0s 10ms/step - loss: 0.6781 - accuracy: 0.6437

Test loss: 0.6781

13/13 [=====] - 0s 6ms/step

	precision	recall	f1-score	support
0	0.98	0.94	0.96	192
1	0.95	0.98	0.96	221
accuracy			0.96	413
macro avg	0.96	0.96	0.96	413
weighted avg	0.96	0.96	0.96	413

Result : Accuracy

Features		Accuracy
Normalized PSD	Logistic Regression	65.89 %
	ANN (10 - Dense Layer)	64.27 %
MS LTSS	Logistic Regression	65.19 %
	ANN (10 - Dense Layer)	51.51 %
Overlapping PSD 60 frames - 10 intervals	Logistic Regression	80.00 %
	ANN (100 - Dense Layer)	80.51 %
PPGs Maps	CNN	96.13%