

ProjectDevelopmentPhase eModelPerformanceTest

Date	14November2022
Team ID	PNT2022TMID50430
ProjectName	AGesture-basedToolforSterileBrowsingofRadiologyImages
MaximumMarks	10Marks

ModelPerformanceTesting:

Projectteamshallfillthefollowinginformationinmodelperformancetestingtemplate.

S.No.	Parameter	Values	Screenshot
1.	ModelSummary	conv2d(Conv2D)-320max_pooling2d (MaxPooling2D) - 0conv2d_1(Conv2D)- 9248max_pooling2d_1 (MaxPooling2D) - 0flatten(Flatten)-0 dense (Dense) - 3211776dense_1(Dense)-30 78 ===== Total params:3,224,422Trainableparams: 3,224,422 Non-trainableparams:0	
2.	Accuracy	Training Accuracy - 99.83%Validation Accuracy-96.67%	
3.	ConfidenceScore (OnlyYolo Projects)	ClassDetected- ConfidenceScore-	NA



Screenshots:

1. ModelSummary:

Model: "sequential"

Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 62, 62, 32)	320
max_pooling2d (MaxPooling2D)	(None, 31, 31, 32)	0
conv2d_1 (Conv2D)	(None, 29, 29, 32)	9248
max_pooling2d_1 (MaxPooling2D)	(None, 14, 14, 32)	0
flatten (Flatten)	(None, 6272)	0
dense (Dense)	(None, 512)	3211776
dense_1 (Dense)	(None, 6)	3078
Total params: 3,224,422		
Trainable params: 3,224,422		
Non-trainable params: 0		

2. Accuracy:

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Epoch 3/25
198/198 [=====] - 6s 30ms/step - loss: 0.3511 - accuracy: 0.8704 - val_loss: 0.7750 - val_accuracy: 0.7667
Epoch 4/25
198/198 [=====] - 6s 31ms/step - loss: 0.2874 - accuracy: 0.8939 - val_loss: 0.4991 - val_accuracy: 0.8667
Epoch 5/25
198/198 [=====] - 6s 30ms/step - loss: 0.1933 - accuracy: 0.9209 - val_loss: 0.3878 - val_accuracy: 0.9333
Epoch 6/25
198/198 [=====] - 6s 30ms/step - loss: 0.1651 - accuracy: 0.9444 - val_loss: 0.4334 - val_accuracy: 0.9333
Epoch 7/25
198/198 [=====] - 6s 30ms/step - loss: 0.1399 - accuracy: 0.9529 - val_loss: 0.2843 - val_accuracy: 0.9667
Epoch 8/25
198/198 [=====] - 6s 30ms/step - loss: 0.1349 - accuracy: 0.9478 - val_loss: 0.2908 - val_accuracy: 0.9667
Epoch 9/25
198/198 [=====] - 6s 30ms/step - loss: 0.0865 - accuracy: 0.9680 - val_loss: 0.3525 - val_accuracy: 0.9333
Epoch 10/25
198/198 [=====] - 6s 30ms/step - loss: 0.0613 - accuracy: 0.9747 - val_loss: 0.7240 - val_accuracy: 0.7000
Epoch 11/25
198/198 [=====] - 6s 30ms/step - loss: 0.0746 - accuracy: 0.9714 - val_loss: 0.2732 - val_accuracy: 0.9667
Epoch 12/25
198/198 [=====] - 6s 30ms/step - loss: 0.0931 - accuracy: 0.9663 - val_loss: 0.2851 - val_accuracy: 0.9333
Epoch 13/25
...
Epoch 24/25
198/198 [=====] - 6s 30ms/step - loss: 0.0088 - accuracy: 0.9983 - val_loss: 0.3587 - val_accuracy: 0.9667
Epoch 25/25
198/198 [=====] - 6s 31ms/step - loss: 0.0189 - accuracy: 0.9983 - val_loss: 0.3366 - val_accuracy: 0.9667

<keras.callbacks.History at 0x1b2a7bd6f10>
```



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