

Project Development Phase
Model Performance Test

Date	12 November 2022
Team ID	PNT2022TMID44126
Project Name	Real Time Communication System Powered By AI For Specially Abled
Maximum Marks	10 Marks

Model Performance Testing:

S.No.	Parameter	Values	Screenshot
1.	Model Summary	Total params: 15,750,473 Trainable params: 15,750,473 Non-trainable params: 0	See image 1(Below Attached)
2.	Accuracy	Training Accuracy - 0.9993 Validation Accuracy – 0.9667	See Image 2(Below Attached)
3.	Confidence Score (Only Yolo Projects)	Class Detected - 9 Confidence Score - 9	

Image 1:

Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 62, 62, 32)	320
max_pooling2d (MaxPooling2D)	(None, 31, 31, 32)	0
flatten (Flatten)	(None, 30752)	0
dense (Dense)	(None, 512)	15745536
dense_1 (Dense)	(None, 9)	4617
Total params: 15,750,473		
Trainable params: 15,750,473		
Non-trainable params: 0		

Image 2:

```
Epoch 1/10
24/24 [=====] - ETA: 0s - loss: 1.1151 - accuracy: 0.5966WARNING:tensorflow:Your input ran out of data; interrupting training. Make
sure that your dataset or generator can generate at least `steps_per_epoch * epochs` batches (in this case, 40 batches). You may need to use the repeat
() function when building your dataset.
24/24 [=====] - 58s 2s/step - loss: 1.1151 - accuracy: 0.5966 - val_loss: 0.4558 - val_accuracy: 0.9067
Epoch 2/10
24/24 [=====] - 55s 2s/step - loss: 0.2326 - accuracy: 0.9233
Epoch 3/10
24/24 [=====] - 53s 2s/step - loss: 0.0814 - accuracy: 0.9759
Epoch 4/10
24/24 [=====] - 54s 2s/step - loss: 0.0333 - accuracy: 0.9891
Epoch 5/10
24/24 [=====] - 56s 2s/step - loss: 0.0297 - accuracy: 0.9921
Epoch 6/10
24/24 [=====] - 57s 2s/step - loss: 0.0212 - accuracy: 0.9943
Epoch 7/10
24/24 [=====] - 57s 2s/step - loss: 0.0106 - accuracy: 0.9965
Epoch 8/10
24/24 [=====] - 57s 2s/step - loss: 0.0145 - accuracy: 0.9958
Epoch 9/10
24/24 [=====] - 57s 2s/step - loss: 0.0062 - accuracy: 0.9989
Epoch 10/10
24/24 [=====] - 56s 2s/step - loss: 0.0030 - accuracy: 0.9993
```