Project Development Phase Model Performance Test

Date	17th November 2022	
Team ID	PNT2022TMID39569	
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: 15,751,049 Trainable params: 15,751,049 Non-trainable params: 0	Screenshot-1
2.	Accuracy	Training Accuracy – 97.53 Validation Accuracy -98.60	Screenshot-2

Screenshots – Please refer to the next page for Screenshots

Screenshot-1:



model.summary()

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Model: "sequential"

Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 62, 62, 32)	896
<pre>max_pooling2d (MaxPooling2D)</pre>	(None, 31, 31, 32)	0
flatten (Flatten)	(None, 30752)	0
dense (Dense)	(None, 512)	15745536
dense_1 (Dense)	(None, 9)	4617

Total params: 15,751,049 Trainable params: 15,751,049 Non-trainable params: 0

Screenshot-2:

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↑ ↓ ⊕ 目 $ ♬ 🔋 :
Epoch 1/10
 Epoch 2/10
  24/24 [=========] - 9s 367ms/step - loss: 0.4532 - accuracy: 0.8464 - val_loss: 0.3805 - val_accuracy: 0.8836
  Epoch 3/10
  24/24 [========] - 8s 323ms/step - loss: 0.2077 - accuracy: 0.9375 - val_loss: 0.2841 - val_accuracy: 0.9430
  Epoch 5/10
  Epoch 6/10
  24/24 [=============] - 8s 322ms/step - loss: 0.1099 - accuracy: 0.9635 - val_loss: 0.2054 - val_accuracy: 0.9477
  Epoch 7/10
  24/24 [=========] - 8s 322ms/step - loss: 0.1363 - accuracy: 0.9596 - val_loss: 0.2326 - val_accuracy: 0.9578
  Epoch 8/10
  Epoch 9/10
  24/24 [=============] - 8s 323ms/step - loss: 0.0975 - accuracy: 0.9740 - val_loss: 0.2348 - val_accuracy: 0.9477
  <keras.callbacks.History at 0x7fe4882de650>
```