## Project Development Phase Model Performance Test

Date	15 November 2022	
Team ID	PNT2022TMID37239	
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:

# 0

model.summary()

### $\Box$

Model: "sequential"

Output Shape	Param #
(None, 62, 62, 32)	896
(None, 31, 31, 32)	0
(None, 30752)	0
(None, 512)	15745536
(None, 9)	4617
	(None, 62, 62, 32) (None, 31, 31, 32) (None, 30752) (None, 512)

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Total params: 15,751,049
Trainable params: 15,751,049

Non-trainable params: 0

#### Screenshot-2:

```
↑ ↓ © 目 $ 兄 î :
Epoch 1/10
 D Epoch 2/10
 Epoch 3/10
 24/24 [=========] - 9s 377ms/step - loss: 0.2979 - accuracy: 0.9010 - val_loss: 0.2808 - val_accuracy: 0.9141
 Epoch 4/10
 Epoch 5/10
 Epoch 6/10
 24/24 [====
        Epoch 7/10
      24/24 [=====
 Epoch 8/10
 24/24 [=====
        Epoch 9/10
 24/24 [================================ ] - 8s 323ms/step - loss: 0.0975 - accuracy: 0.9740 - val_loss: 0.2348 - val_accuracy: 0.9477
 Epoch 10/10
 24/24 [===========] - 9s 380ms/step - loss: 0.0909 - accuracy: 0.9753 - val_loss: 0.2134 - val_accuracy: 0.9680
 <keras.callbacks.History at 0x7fe4882de650>
```