Project Development Phase Model Performance Test

| Date | 21 November 2022 |
|---------------|-----------------------------|
| Team ID | PNT2022TMID07674 |
| Project Name | Project - Real-Time |
| | Communication System |
| | Powered by AI for Specially |
| | Abled |
| Maximum Marks | 10 Marks |

Model Performance Testing:

| S.No. | Parameter | Values |
|-------|---------------|--|
| 1. | Model Summary | Total params: 15,750,473 |
| | | Trainable params: 15,750,473 Non-trainable params: 0 |
| 2. | Accuracy | Training Accuracy – 99.91% |
| | | Validation Accuracy -97.67% |

Screenshot:

1. Model Summary

Model: "sequential"

| 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

2. Accuracy

```
/usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:2: UserWarning: `Model.fit_generator` is deprecated and will be removed in a future version of the control of 
Epoch 1/10
Epoch 2/10
Epoch 3/10
Epoch 4/10
Epoch 5/10
Epoch 6/10
Epoch 7/10
18/18 [============== ] - 84s 5s/step - loss: 0.0028 - accuracy: 0.9993 - val_loss: 0.2577 - val_accuracy: 0.9760
Epoch 8/10
Epoch 9/10
Epoch 10/10
<keras.callbacks.History at 0x7f6ff9335350>
```