Project Development Phase Model Performance Test

| Date | 17 November 2022 |
|---------------|--|
| Team ID | PNT2022TMID40534 |
| Project Name | Project - Real-Time Communication System Powered by AI for Specially Abled |
| Maximum Marks | 10 Marks |

Model Performance Testing:

Project team shall fill the following information in model performance testing template.

| S.No. | Parameter | Values | Screenshot |
|-------|---|-----------------------------|---|
| 1. | Model Summary Total params: 1,103,721 Trainable params: 0 Non-trainable params: 0 | Trainable params: 1,103,721 | Model: "sequential" |
| | | | Layer (type) Output Shape Param # |
| | | | conv2d (Conv2D) (None, 62, 62, 32) 320 |
| | | | <pre>max_pooling2d (MaxPooling2D (None, 31, 31, 32)</pre> |
| | | | conv2d_1 (Conv2D) (None, 29, 29, 512) 147968 |
| | | | max_pooling2d_1 (MaxPooling (None, 14, 14, 512) 0 2D) |
| | | | conv2d_2 (Conv2D) (None, 14, 14, 32) 147488 |
| | | | <pre>max_pooling2d_2 (MaxPooling (None, 7, 7, 32) 2D)</pre> |
| | | | flatten (Flatten) (None, 1568) 0 |
| | | | dense (Dense) (None, 512) 803328 |
| | | | dense_1 (Dense) (None, 9) 4617 |
| | | | Total params: 1,103,721 Trainable params: 0 |

| 2. | Accuracy | Training Accuracy - 0.9994 | Epoch 13/25 |
|----|----------|-----------------------------|---|
| | • | | 53/53 [==================================== |
| | | | 0.0647 - val_accuracy: 0.9844 |
| | | | Epoch 14/25 |
| | | | 53/53 [==================================== |
| | | Validation Accuracy -0.9969 | 0.2113 - val_accuracy: 0.9751 |
| | | | Epoch 15/25 |
| | | | 53/53 [==================================== |
| | | | 0.2393 - val_accuracy: 0.9720 |
| | | | Epoch 16/25 |
| | | | 53/53 [==================================== |
| | | | 0.0172 - val_accuracy: 0.9969 |
| | | | Epoch 17/25 |
| | | | 53/53 [==================================== |
| | | | s: 0.0504 - val_accuracy: 0.9893 |
| | | | Epoch 18/25 |
| | | | 53/53 [==================================== |
| | | | s: 0.1009 - val_accuracy: 0.9849 |
| | | | Epoch 19/25 |
| | | | 53/53 [==================================== |
| | | | 0.0669 - val_accuracy: 0.9853 |
| | | | Epoch 20/25 |
| | | | 53/53 [==================================== |
| | | | 0.3904 - val_accuracy: 0.9787 |
| | | | Epoch 21/25 |
| | | | 53/53 [==================================== |
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