Project Development
Model Performance Test

Date	20/11/2022
Team ID	PNT2022TMID38587
Project Name	Real-time communication system 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	-	`model.summary()`
			`Model: "sequential"`
			`_____`
			`Layer (type) Output Shape Param #`
			`=====`
			`conv2d (Conv2D) (None, 48, 48, 32) 320`
			`max_pooling2d (MaxPooling2D (None, 24, 24, 32) 0`
			`)`
			`dropout (Dropout) (None, 24, 24, 32) 0`
			`conv2d_1 (Conv2D) (None, 22, 22, 64) 18496`
			`max_pooling2d_1 (MaxPooling (None, 11, 11, 64) 0`
			`2D)`
			`dropout_1 (Dropout) (None, 11, 11, 64) 0`
			`conv2d_2 (Conv2D) (None, 9, 9, 128) 73856`
			`max_pooling2d_2 (MaxPooling (None, 4, 4, 128) 0`
			`2D)`
			`dropout_2 (Dropout) (None, 4, 4, 128) 0`
			`conv2d_3 (Conv2D) (None, 2, 2, 256) 295168`
			`max_pooling2d_3 (MaxPooling (None, 1, 1, 256) 0`
			`2D)`
			`dropout_3 (Dropout) (None, 1, 1, 256) 0`
			`flatten (Flatten) (None, 256) 0`
			`dense (Dense) (None, 1024) 263168`
			`dense_1 (Dense) (None, 512) 524800`
			`dense_2 (Dense) (None, 37) 18981`
			`=====`
			`Total params: 1,194,789`
			`Trainable params: 1,194,789`
			`Non-trainable params: 0`
			`_____`

2.	Accuracy	Training Accuracy - 0.9802 Validation Accuracy - 0.9984	Epoch 1/5 148/148 [==========] - 621s 4s/step - loss: 1.3820 - accuracy: 0.5761 - val_loss: 0.2260 - val_accuracy: 0.9277 Epoch 2/5 148/148 [==========] - 409s 3s/step - loss: 0.2043 - accuracy: 0.9297 - val_loss: 0.0541 - val_accuracy: 0.9820 Epoch 3/5 148/148 [==========] - 472s 3s/step - loss: 0.1160 - accuracy: 0.9595 - val_loss: 0.0354 - val_accuracy: 0.9903 Epoch 4/5 148/148 [==========] - 389s 3s/step - loss: 0.0769 - accuracy: 0.9734 - val_loss: 0.0117 - val_accuracy: 0.9964 Epoch 5/5 148/148 [==========] - 205s 1s/step - loss: 0.0564 - accuracy: 0.9802 - val_loss: 0.0077 - val_accuracy: 0.9984
3.	Confidence Score (Only Yolo Projects)	Class Detected - Confidence Score -	