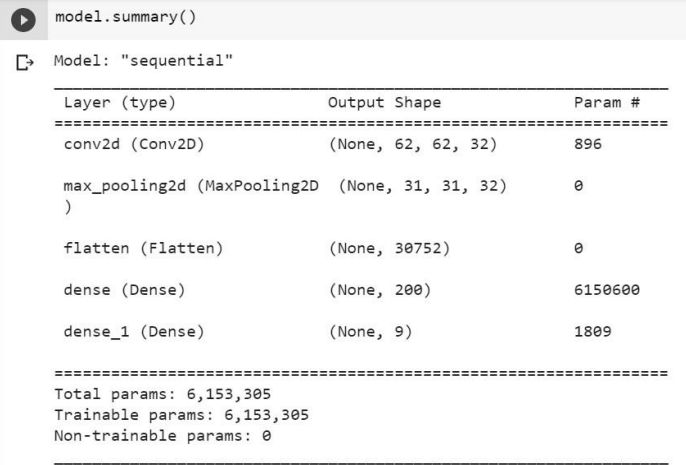


Project Development Phase Model Performance Test

Date	17 November 2022
Team ID	PNT2022TMID42383
Project Name	Project - Real Time Communication 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	Model - Sequential model Layers: Conv2D-(None,62,62,32) MaxPooling2D-(None,31,31,32) Flatten-(None,30752) Dense-(None,200) Dense_1 -(None,9)	 <pre> model.summary() Model: "sequential" _____ Layer (type) Output Shape Param # ----- conv2d (Conv2D) (None, 62, 62, 32) 896 max_pooling2d (MaxPooling2D) (None, 31, 31, 32) 0 flatten (Flatten) (None, 30752) 0 dense (Dense) (None, 200) 6150600 dense_1 (Dense) (None, 9) 1809 ----- Total params: 6,153,305 Trainable params: 6,153,305 Non-trainable params: 0 </pre>

2.	Accuracy	Training Accuracy - 0.9622 Validation Accuracy -0.9826	<pre>model.fit(x_train,epochs=10,validation_data=x_test,steps_per_epoch=len(x_train)//10,validation_steps=len(x_test))</pre> <pre>Epoch 1/10 50/50 [=====] - 660s 13s/step - loss: 1.5822 - accuracy: 0.5987 - val_loss: 0.4575 - val_accuracy: 0.9652 Epoch 2/10 50/50 [=====] - 353s 7s/step - loss: 0.5874 - accuracy: 0.8887 - val_loss: 0.2121 - val_accuracy: 0.9575 Epoch 3/10 50/50 [=====] - 313s 6s/step - loss: 0.3571 - accuracy: 0.9887 - val_loss: 0.1189 - val_accuracy: 0.9758 Epoch 4/10 50/50 [=====] - 284s 6s/step - loss: 0.2742 - accuracy: 0.9147 - val_loss: 0.0974 - val_accuracy: 0.9739 Epoch 5/10 50/50 [=====] - 255s 5s/step - loss: 0.2381 - accuracy: 0.9293 - val_loss: 0.1118 - val_accuracy: 0.9758 Epoch 6/10 50/50 [=====] - 228s 4s/step - loss: 0.1931 - accuracy: 0.9393 - val_loss: 0.0749 - val_accuracy: 0.9758 Epoch 7/10 50/50 [=====] - 216s 4s/step - loss: 0.1998 - accuracy: 0.9353 - val_loss: 0.1086 - val_accuracy: 0.9797 Epoch 8/10 50/50 [=====] - 187s 4s/step - loss: 0.1353 - accuracy: 0.9668 - val_loss: 0.0596 - val_accuracy: 0.9903 Epoch 9/10 50/50 [=====] - 168s 3s/step - loss: 0.1248 - accuracy: 0.9713 - val_loss: 0.2522 - val_accuracy: 0.8988 Epoch 10/10 50/50 [=====] - 149s 3s/step - loss: 0.1291 - accuracy: 0.9622 - val_loss: 0.0589 - val_accuracy: 0.9826 (keras.callbacks.History at 0x7ff731bd7218)</pre>
3	Confidence Score	Class Detected – N/A Confidence Score -N/A	N/A