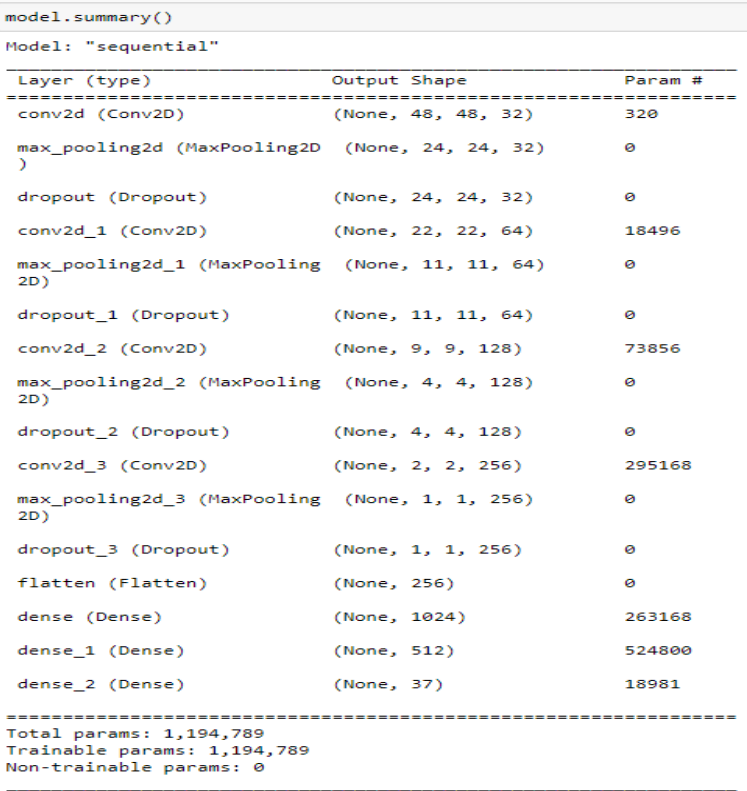


## Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID35896
Project Name	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	-	 <pre> 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 (MaxPooling2D) (None, 11, 11, 64)       0 dropout_1 (Dropout)          (None, 11, 11, 64)       0 conv2d_2 (Conv2D)            (None, 9, 9, 128)        73856 max_pooling2d_2 (MaxPooling2D) (None, 4, 4, 128)        0 dropout_2 (Dropout)          (None, 4, 4, 128)        0 conv2d_3 (Conv2D)            (None, 2, 2, 256)        295168 max_pooling2d_3 (MaxPooling2D) (None, 1, 1, 256)        0 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 </pre>

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