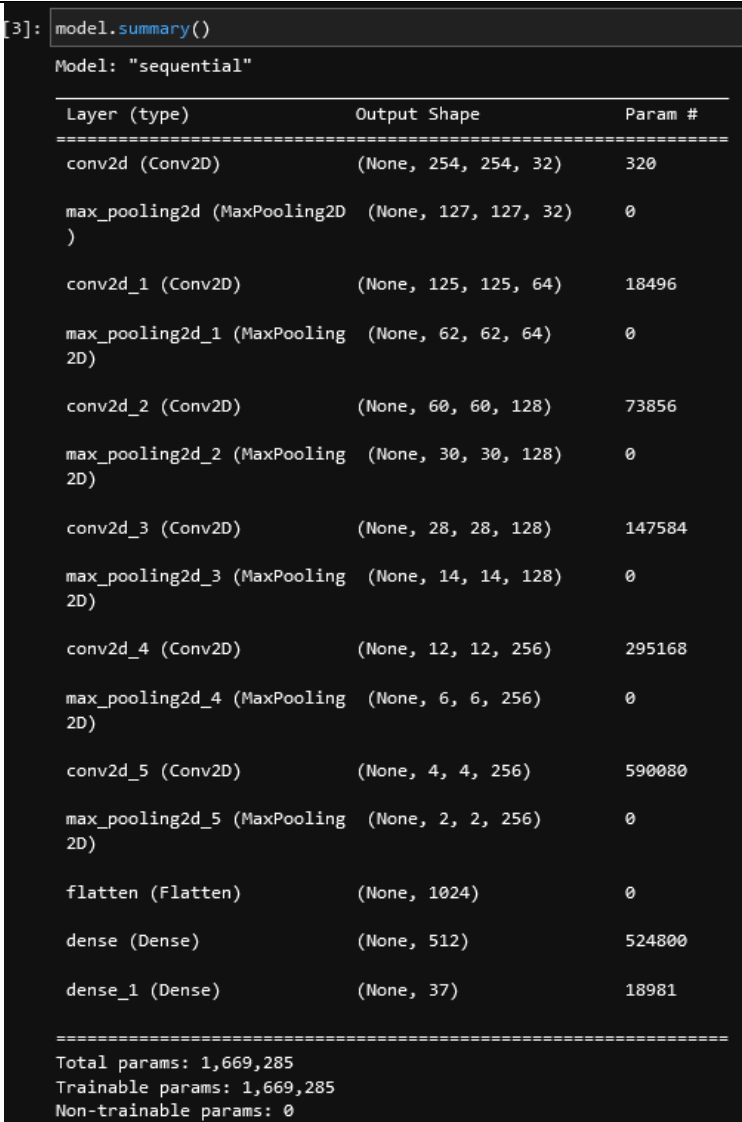


## Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID35886
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	-	 <pre> [3]: model.summary()  Model: "sequential" ----- Layer (type)                 Output Shape              Param # ----- conv2d (Conv2D)              (None, 254, 254, 32)      320 max_pooling2d (MaxPooling2D) (None, 127, 127, 32)      0 conv2d_1 (Conv2D)            (None, 125, 125, 64)      18496 max_pooling2d_1 (MaxPooling2D) (None, 62, 62, 64)      0 conv2d_2 (Conv2D)            (None, 60, 60, 128)      73856 max_pooling2d_2 (MaxPooling2D) (None, 30, 30, 128)      0 conv2d_3 (Conv2D)            (None, 28, 28, 128)      147584 max_pooling2d_3 (MaxPooling2D) (None, 14, 14, 128)      0 conv2d_4 (Conv2D)            (None, 12, 12, 256)      295168 max_pooling2d_4 (MaxPooling2D) (None, 6, 6, 256)      0 conv2d_5 (Conv2D)            (None, 4, 4, 256)         590080 max_pooling2d_5 (MaxPooling2D) (None, 2, 2, 256)      0 flatten (Flatten)            (None, 1024)              0 dense (Dense)                (None, 512)               524800 dense_1 (Dense)              (None, 37)                18981 ----- Total params: 1,669,285 Trainable params: 1,669,285 Non-trainable params: 0 </pre>

2.	Accuracy	Training Accuracy – <b>99.41%</b>  Validation Accuracy – <b>99.25%</b>	<div>Epoch 99/100</div> <div>100/100 [=====] - 315s 3s/step</div> <div>Training:</div> <div>loss: 0.0161 - accuracy: 0.9941</div> <div>Validation:</div> <div>val_loss: 0.0259 - val_accuracy: 0.9925</div> <div>Since the ModelCheckpoint callback was used only the best model (99<sup>th</sup> epoch) among all epochs is saved.</div>
3	Confidence Score (Only Yolo Projects)	Class Detected -  Confidence Score -	