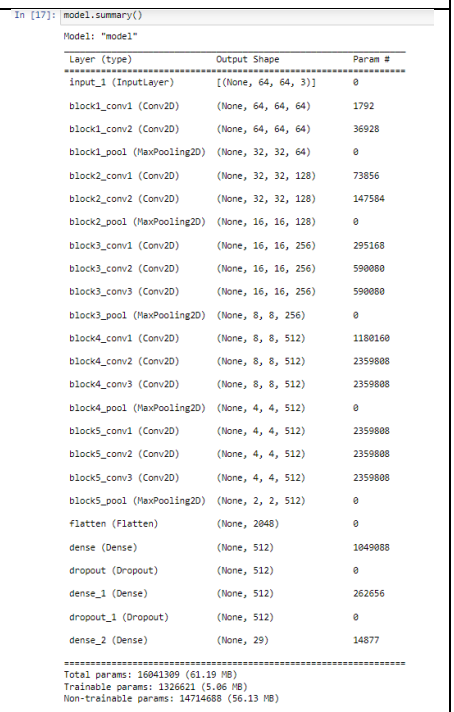
Project Development Phase
Model Performance Test

Date	19 November 2023
Team ID	Team-591551
Project Name	ASL Alphabet Image Recognition
Maximum Marks	10 Marks

Model Performance Testing:

S.No.	Parameter	Values	Screenshot
1.	Model Summary	-	
2.	Accuracy	Training Accuracy - 0.9537 Validation Accuracy - 0.9910	

```
In [17]: model.summary()
Model: "model"
_________________________________________________________________
 Layer (type)                Output Shape              Param #
=================================================================
 input_1 (InputLayer)        [(None, 64, 64, 3)]       0
 block1_conv1 (Conv2D)       (None, 64, 64, 64)        1792
 block1_conv2 (Conv2D)       (None, 64, 64, 64)        36928
 block1_pool (MaxPooling2D)  (None, 32, 32, 64)        0
 block2_conv1 (Conv2D)       (None, 32, 32, 128)       73856
 block2_conv2 (Conv2D)       (None, 32, 32, 128)       147584
 block2_pool (MaxPooling2D)  (None, 16, 16, 128)       0
 block3_conv1 (Conv2D)       (None, 16, 16, 256)       295168
 block3_conv2 (Conv2D)       (None, 16, 16, 256)       590080
 block3_conv3 (Conv2D)       (None, 16, 16, 256)       590080
 block3_pool (MaxPooling2D)  (None, 8, 8, 256)         0
 block4_conv1 (Conv2D)       (None, 8, 8, 512)         1180160
 block4_conv2 (Conv2D)       (None, 8, 8, 512)         2359808
 block4_conv3 (Conv2D)       (None, 8, 8, 512)         2359808
 block4_pool (MaxPooling2D)  (None, 4, 4, 512)         0
 block5_conv1 (Conv2D)       (None, 4, 4, 512)         2359808
 block5_conv2 (Conv2D)       (None, 4, 4, 512)         2359808
 block5_conv3 (Conv2D)       (None, 4, 4, 512)         2359808
 block5_pool (MaxPooling2D)  (None, 2, 2, 512)         0
 flatten (Flatten)           (None, 2048)              0
 dense (Dense)               (None, 512)               1049088
 dropout (Dropout)           (None, 512)               0
 dense_1 (Dense)             (None, 512)               262656
 dropout_1 (Dropout)         (None, 512)               0
 dense_2 (Dense)             (None, 29)                14877
=================================================================
Total params: 16041309 (61.19 MB)
Trainable params: 1326621 (5.06 MB)
Non-trainable params: 14714688 (56.13 MB)
```

```
Epoch 10/10
885/885 [==============================] - 419s 473ms/step - loss: 0.1300 - accuracy: 0.9537 - val_loss: 0.0310 - val_accuracy:
0.9910
```