Project Development Phase
Model Performance Test

Date	26 November 2023
Team ID	592033
Project Name	ASL – Alphabet Image Recognition
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" Layer (type) Output Shape Param # ===================================== conv2d (Conv2D) (None, 62, 62, 32) 320 max_pooling2d (MaxPooling2D) (None, 31, 31, 32) 0 conv2d_1 (Conv2D) (None, 29, 29, 64) 18496 max_pooling2d_1 (MaxPooling2D) (None, 14, 14, 64) 0 flatten (Flatten) (None, 12544) 0 dense (Dense) (None, 128) 1605760 dense_1 (Dense) (None, 29) 3741 ===================================== Total params: 1628317 (6.21 MB) Trainable params: 1628317 (6.21 MB) Non-trainable params: 0 (0.00 Byte)
2.	Accuracy	Training Accuracy – 91.083 Validation Accuracy - 97.203	Number of images: 87000 Shape of X: (87000, 64, 64, 1) Shape of y: (87000, 29)

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2175/2175 [==============================] - 80s 36ms/step - loss: 1.4739 - accuracy: 0.5487 -
Epoch 2/10
2175/2175 [==============================] - 76s 35ms/step - loss: 0.5564 - accuracy: 0.8180 -
Epoch 3/10
2175/2175 [==============================] - 76s 35ms/step - loss: 0.3436 - accuracy: 0.8866 -
Epoch 4/10
2175/2175 [==============================] - 76s 35ms/step - loss: 0.2453 - accuracy: 0.9197 -
Epoch 5/10
2175/2175 [==============================] - 75s 34ms/step - loss: 0.1909 - accuracy: 0.9367 -
Epoch 6/10
2175/2175 [==============================] - 77s 35ms/step - loss: 0.1513 - accuracy: 0.9488 -
Epoch 7/10
2175/2175 [==============================] - 75s 35ms/step - loss: 0.1271 - accuracy: 0.9577 -
Epoch 8/10
2175/2175 [==============================] - 76s 35ms/step - loss: 0.1063 - accuracy: 0.9639 -
Epoch 9/10
2175/2175 [==============================] - 76s 35ms/step - loss: 0.0979 - accuracy: 0.9677 -
Epoch 10/10
2175/2175 [==============================] - 78s 36ms/step - loss: 0.0843 - accuracy: 0.9720 -
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val_loss: 683.6526 - val_accuracy: 0.4087
val_loss: 1422.0901 - val_accuracy: 0.3402
val_loss: 2655.7476 - val_accuracy: 0.2802
val_loss: 4545.0000 - val_accuracy: 0.2052
val_loss: 6657.8994 - val_accuracy: 0.1656
val_loss: 7839.8491 - val_accuracy: 0.1539
val_loss: 9309.9873 - val_accuracy: 0.1231
val_loss: 9814.0840 - val_accuracy: 0.1267
val_loss: 12729.4297 - val_accuracy: 0.1067
val_loss: 15149.7471 - val_accuracy: 0.0918
```

3.	Confidence Score (Only Yolo Projects)	Class Detected - NIL Confidence Score - NIL	Not Applicable