# **Project Development Phase**

# **Model Performance Test**

Date	14 November 2022
Team ID	PNT2022TMID29664
Project Name	Real time communication powered by AI for specially abled
Maximum Marks	10 Marks

## **PERFORMANCE METRICS:**

Project team shall fill the following information in model performance testing template.

S.No.	Parame ter		Values	
1.	Model Summary	-Model: "sequential"		
		Layer (type)	Output Shape	Param #
		conv2d (Conv2D)	(None, 62, 62, 32)	896
		max_pooling2d (Max	xPooling2D) (None, 3	1, 31, 32) 0
		flatten (Flatten)	(None, 30752)	0
		dense (Dense)	(None, 200)	6150600
		dense_1 (Dense)	(None, 200)	40200
		dense_2 (Dense)	(None, 9)	1809
		Total params: 6,193, Trainable params: 6, Non-trainable param	193,505	

2.	Accurac	Training Accuracy - 0.9942	
	У		
		Validation Accuracy - 0.9778	
1			

#### MODEL SUMMARY:

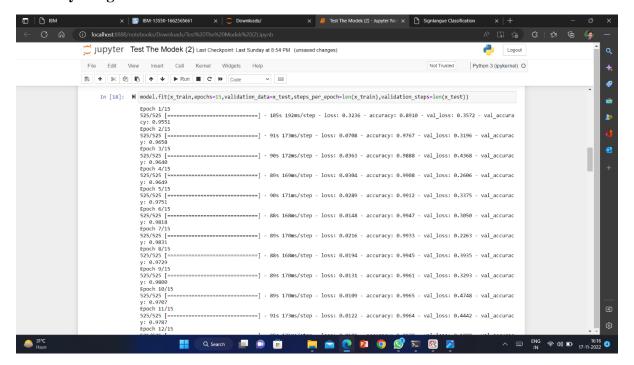
- ➤ Each layer has an output and its shape is shown in the "Output Shape" column. Each layer's output becomes the input for the subsequent layer.
- ➤ The "Param #" column shows you the number of parameters that are trained for each layer.
- ➤ The total number of parameters is shown at the end, which is equal to the number of trainable and non-trainable parameters. In this model, all the layers are trainable.

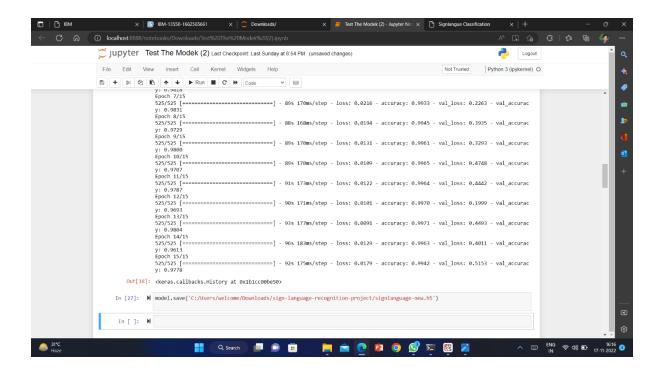
#### **Accuracy:**

➤ "loss" refers to the loss value over the training data after each epoch. This is what the optimization process is trying to minimize with the training so, the lower, the better.

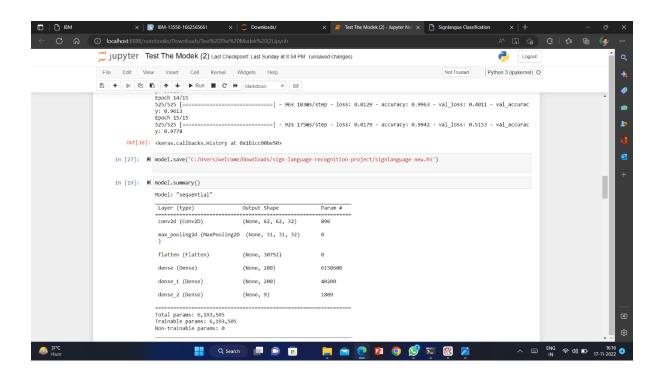
"accuracy" refers to the ratio between correct predictions and the total number of predictions in the training data. The higher, the better. This is normally inversely correlated with the loss.

### accuracy image:

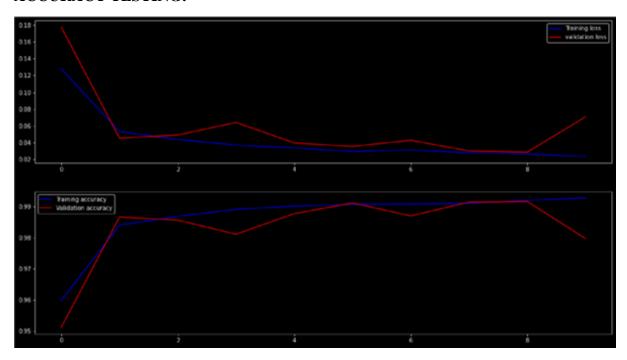




### Model summary image:



### **ACCURACY TESTING:**



### PERFORMANCE TESTING USING LOCUST TEST:

