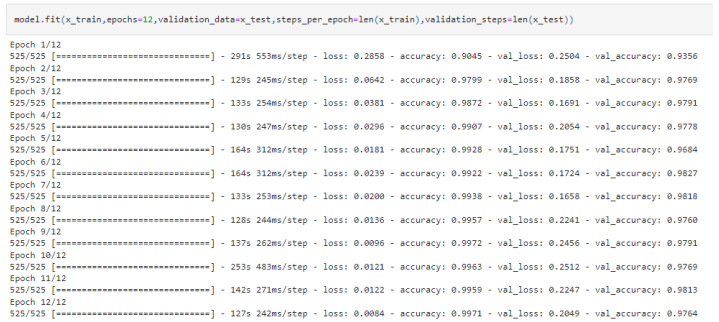
Project Development Phase
Model Performance Test

Date	14 November 2022
Team ID	PNT2022TMID21808
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	Model: "sequential" _____ __ Layer (type) Output Shape Param # ========== ==conv2d (Conv2D) (None, 62, 62, 32) 896 max_pooling2d (None, 31, 31, 32) 0 flatten (Flatten) (None, 30752) 0 dense (Dense) (None, 300) 9225900 dense_1 (Dense) (None, 150) 45150 dense_2 (Dense) (None, 9) 1359 ========== == Total params: 9,273,305 Trainable params: 9,273,305 Non-trainable params: 0	model.summary() Model: "sequential" _____ Layer (type) Output Shape Param # ========== conv2d (Conv2D) (None, 62, 62, 32) 896 max_pooling2d (MaxPooling2D) (None, 31, 31, 32) 0 flatten (Flatten) (None, 30752) 0 dense (Dense) (None, 300) 9225900 dense_1 (Dense) (None, 150) 45150 dense_2 (Dense) (None, 9) 1359 ========== Total params: 9,273,305 Trainable params: 9,273,305 Non-trainable params: 0 _____

2.	Accuracy	Training Accuracy – 0.9971 Validation Accuracy – 0.9764	

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 foreach layer.
- The total number of parameters is shown at the end, which is equal to the number oftrainable 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 whatthe 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 ofpredictions in the training data. The higher, the better. This is normally inversely correlatedwith the loss.