

Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID09247
Project Name	Real-Time Communication System Powered by AI for Specially Abled
Maximum Marks	10 Marks

1. Model Summary

In [40]: model.summary()		
Model: "sequential"		
Layer (type)	Output Shape	Param #
=====		
conv2d (Conv2D)	(None, 62, 62, 32)	320
=====		
max_pooling2d (MaxPooling2D)	(None, 31, 31, 32)	0
=====		
flatten (Flatten)	(None, 30752)	0
=====		
dense (Dense)	(None, 512)	15745536
=====		
dense_1 (Dense)	(None, 9)	4617
=====		
Total params: 15,750,473		
Trainable params: 15,750,473		
Non-trainable params: 0		

2. Confusion Matrix and Classification Report

Confusion Matrix				
[[38 31 33 26 29 22 31 19 21]				
[31 28 25 27 26 26 33 26 28]				
[22 18 28 34 30 36 33 21 28]				
[32 21 23 34 30 24 42 22 22]				
[29 23 29 18 25 30 32 30 34]				
[20 29 27 26 32 25 32 22 37]				
[27 30 26 32 21 31 33 26 24]				
[26 41 25 26 24 26 30 25 27]				
[25 29 33 28 33 30 29 14 29]]				
Classification Report				
	precision	recall	f1-score	support
A	0.15	0.15	0.15	250
B	0.11	0.11	0.11	250
C	0.11	0.11	0.11	250
D	0.14	0.14	0.14	250
E	0.10	0.10	0.10	250
F	0.10	0.10	0.10	250
G	0.11	0.13	0.12	250
H	0.12	0.10	0.11	250
I	0.12	0.12	0.12	250
accuracy			0.12	2250
macro avg	0.12	0.12	0.12	2250
weighted avg	0.12	0.12	0.12	2250

3. Accuracy

