

## Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID09233
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

