



Model Development Phase Template

Date	15 March 2024
Team ID	739665
Project Title	Real Time Communication System Powered By AI For Specially Abled
Maximum Marks	10 Marks

Initial Model Training Code, Model Validation and Evaluation Report

The initial model training code will be showcased in the future through a screenshot. The model validation and evaluation report will include a summary and training and validation performance metrics for multiple models, presented through respective screenshots.

Initial Model Training Code (5 marks):

Paste the screenshot of the model training code

Model Validation and Evaluation Report (5 marks):

Model	Summary	Training and V	alidation Perfo Metrics	ormance
	Initialize the model	Model: "sequential"		
	<pre>model = Sequential()</pre>	Layer (type)	Output Shape	Param #
Convoluti	Add the convolution layer	conv2d (Conv2D)	(None, 62, 62, 32)	320
a.a.1	<pre>model.add(Convolution2D(32,(3,3),input_shape=(64,64,1),activation = 'relu'))</pre>	max_pooling2d (MaxPooling2D)	(None, 31, 31, 32)	0
onal	Add the pooling layer	flatten (Flatten)	(None, 30752)	0
Neural		dense (Dense)	(None, 512)	15,745,536
- 10 0 0	<pre>model.add(MaxPooling2D(pool_size=(2,2)))</pre>	dense_1 (Dense)	(None, 9)	4,617
Network	Add the flatten layer	dense_2 (Dense)	(None, 512)	5,120
(CNINI)	model.add(Flatten())	dense_3 (Dense)	(None, 9)	4,617
(CNN)	Adding the dense layers model.add(Dense(units=512_activation='relu')) model.add(Dense(units=0,activation='softmax'))	Total params: 15,760,210 (60.12 MB Trainable params: 15,760,210 (60.1 Non-trainable params: 0 (0.00 B)		





Compile the model 25]: model.compile(losss'categorical_crossentropy',optimizers'adam',metricss['accuracy']) 26]: model.summary()
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