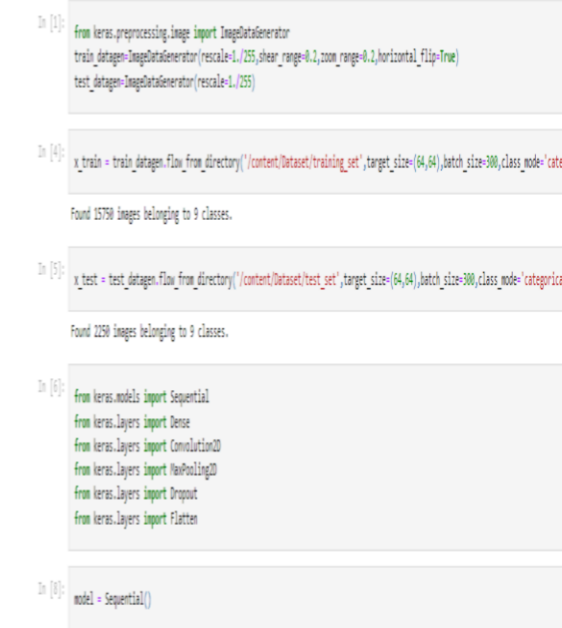


## Project Development Phase Model Performance Test

Date	18 November 2022
Team ID	PNT2022TMID03512
Project Name	Project – 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		 <pre> In [1]: from keras.preprocessing.image import ImageDataGenerator         train_datagen=ImageDataGenerator(rescale=1./255,shear_range=0.2,zoom_range=0.2,horizontal_flip=True)         test_datagen=ImageDataGenerator(rescale=1./255)  In [4]: x_train = train_datagen.flow_from_directory('/content/Dataset/training_set',target_size=(64,64),batch_size=300,class_mode='categorical')          Found 15750 images belonging to 9 classes.  In [5]: x_test = test_datagen.flow_from_directory('/content/Dataset/test_set',target_size=(64,64),batch_size=300,class_mode='categorical')          Found 2250 images belonging to 9 classes.  In [6]: from keras.models import Sequential         from keras.layers import Dense         from keras.layers import Convolution2D         from keras.layers import MaxPooling2D         from keras.layers import Dropout         from keras.layers import Flatten  In [8]: model = Sequential() </pre>

<div>2. Accuracy</div>	<div>Training Accuracy – 99.6%</div> <div>Validation Accuracy – 98.3%</div>	<div>In [17]:</div> <div><pre>model.fit_generator(x_train,steps_per_epoch=24,epochs=10,validation_steps_per_epoch = no. of train images//batch size)</pre></div> <div><pre>/usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:1: on. Please use 'Model.fit', which supports generators. """Entry point for launching an IPython kernel. Epoch 1/10 24/24 [=====] - ETA: 0s - loss: 1.0716 WARNING:tensorflow:Your input ran out of data; interrupting training * epochs` batches (in this case, 40 batches). You may need to use 24/24 [=====] - 96s 4s/step - loss: 1.0716 Epoch 2/10 24/24 [=====] - 82s 3s/step - loss: 0.2116 Epoch 3/10 24/24 [=====] - 94s 4s/step - loss: 0.0716 Epoch 4/10 24/24 [=====] - 85s 4s/step - loss: 0.0716 Epoch 5/10 24/24 [=====] - 82s 3s/step - loss: 0.0716 Epoch 6/10 24/24 [=====] - 82s 3s/step - loss: 0.0716 Epoch 7/10 24/24 [=====] - 83s 3s/step - loss: 0.0716 Epoch 8/10 24/24 [=====] - 81s 3s/step - loss: 0.0716 Epoch 9/10 24/24 [=====] - 82s 3s/step - loss: 0.0716 Epoch 10/10 24/24 [=====] - 81s 3s/step - loss: 0.0716</pre></div> <div>Out[17]:</div>
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