Real –Time Communication System Powered by AI for Specially Abled Team ID: PNT2022TMID14463

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)

$x_train =$

train_datagen.flow_from_directory('/content/Dataset/training_set',target_size=(64,64),batch_size=300,class_mode='categorical',color_mode="grayscale")

Found 15750 images belonging to 9 classes.

$x_test =$

 $test_datagen.flow_from_directory('/content/Dataset/test_set', target_size=(64,64), batch_size=300, class_mode='c ategorical', color_mode="grayscale")$

Found 2250 images belonging to 9 classes.

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

model = Sequential()

model.add(Convolution2D(32,(3,3),input_shape=(64,64,1), activation='relu')) #no. of feature detectors, size of feature detector, image size, activation function

model.add(MaxPooling2D(pool_size=(2,2)))

model.add(Flatten())