IBM Project Name: Real-Time Communication System Powered by AI for Specially Abled

TEAM ID: PNT2022TMID51692

#import imagedatagenerator from keras.preprocessing.image

import ImageDataGenerator

#training datagen

 $train_datagen=ImageDataGenerator(rescale=1./255, shear_range=0.2, zoom_range=0.2, horizontall_flip=True)$

#testing datagen test_datagen=ImageDataGenerator(rescale=1./255)

IMPORTING tensorflow

import tensorflow as tf import

os

Initialize The Model

#create model 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 from tensorflow.keras.preprocessing.image import ImageDataGenerator

import numpy as np

import matplotlib.pyplot as plt #to view graph in colab itself

import IPython.display as display

from PIL import Image

import pathlib

Unzipping the dataset

!unzip '/content/conversation engine for deaf and dumb (1).zip' Streaming output truncated to the last 5000 lines. extracting: Dataset/training_set/G/1225.png extracting: Dataset/training_set/G/1226.png extracting: Dataset/training_set/G/1227.png extracting: Dataset/training set/G/1228.png extracting: Dataset/training_set/G/1229.png inflating: Dataset/training_set/G/123.png extracting: Dataset/training_set/G/1230.png extracting: Dataset/training_set/G/1231.png extracting: Dataset/training_set/G/1232.png inflating: Dataset/training_set/G/1233.png inflating: Dataset/training set/G/1234.png inflating: Dataset/training_set/G/1235.png inflating: Dataset/training_set/G/1236.png inflating: Dataset/training_set/G/1237.png Dataset/training_set/G/1238.png Dataset/training_set/G/1239.png Dataset/training set/G/124.png Dataset/training_set/G/1240.png Dataset/training_set/G/1241.png Dataset/training_set/G/1242.png Dataset/training_set/G/1243.png Dataset/training set/G/1244.png inflating: Dataset/training_set/G/1245.png extracting: Dataset/training_set/G/1246.png inflating: Dataset/training set/G/1247.png inflating: inflating: inflating:

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extracting: Dataset/training_set/G/483.png

inflating: Dataset/training_set/G/484.png

inflating: Dataset/training_set/G/485.png

inflating: Dataset/training_set/G/486.png

extracting: Dataset/training set/G/487.png

inflating: Dataset/training_set/G/488.png

inflating: Dataset/training_set/G/489.png

inflating: Dataset/training_set/G/49.png

inflating: Dataset/training_set/G/490.png

inflating: Dataset/training_set/G/491.png

inflating: Dataset/training_set/G/492.png

inflating: Dataset/training_set/G/493.png

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inflating: Dataset/training_set/G/495.png

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Dataset/training_set/G/500.png

Dataset/training_set/G/501.png

inflating: Dataset/training_set/G/502.png

inflating: Dataset/training_set/G/505.png

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inflating: Dataset/training_set/G/507.png

inflating: Dataset/training_set/G/508.png

inflating: Dataset/training set/G/509.png

inflating: Dataset/training_set/G/51.png

inflating: Dataset/training_set/G/510.png

inflating: Dataset/training_set/G/511.png

inflating: Dataset/training_set/G/512.png

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inflating: Dataset/training_set/G/530.png

inflating: Dataset/training_set/G/531.png

inflating: Dataset/training_set/G/532.png

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inflating: Dataset/training_set/G/572.png

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inflating: Dataset/training_set/G/574.png

extracting: Dataset/training_set/G/575.png

inflating: Dataset/training_set/G/576.png

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inflating: Dataset/training_set/G/58.png

extracting: Dataset/training_set/G/580.png

inflating: Dataset/training_set/G/581.png

extracting: Dataset/training_set/G/582.png

inflating: Dataset/training_set/G/583.png

inflating: Dataset/training_set/G/584.png

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inflating: Dataset/training_set/G/585.png

extracting: Dataset/training_set/G/586.png

inflating: Dataset/training_set/G/587.png

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inflating: Dataset/training_set/G/59.png

extracting: Dataset/training_set/G/590.png

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extracting: Dataset/training_set/G/596.png

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extracting: Dataset/training_set/G/599.png

inflating: Dataset/training_set/G/6.png

inflating: Dataset/training_set/G/60.png

inflating: Dataset/training_set/G/600.png

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extracting: Dataset/training_set/G/603.png

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inflating: Dataset/training_set/G/619.png

inflating: Dataset/training_set/G/62.png

inflating: Dataset/training_set/G/620.png

inflating: Dataset/training_set/G/621.png

inflating: Dataset/training_set/G/622.png

inflating: Dataset/training_set/G/623.png

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inflating: Dataset/training_set/G/629.png

inflating: Dataset/training_set/G/63.png

inflating: Dataset/training_set/G/630.png

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inflating: Dataset/training_set/G/631.png

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inflating: Dataset/training_set/G/67.png

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inflating: Dataset/training_set/G/674.png

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Dataset/training_set/G/680.png

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inflating: Dataset/training set/G/698.png

inflating: Dataset/training_set/G/699.png

inflating: Dataset/training_set/G/7.png

inflating:

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inflating: Dataset/training_set/G/70.png

inflating: Dataset/training_set/G/700.png

extracting: Dataset/training_set/G/701.png

Dataset/training_set/G/702.png Dataset/training_set/G/703.png

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inflating: Dataset/training_set/G/707.png

inflating: Dataset/training_set/G/708.png

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inflating: Dataset/training_set/G/71.png

inflating: Dataset/training_set/G/710.png

inflating: Dataset/training_set/G/711.png

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inflating: Dataset/training_set/G/719.png

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inflating: Dataset/training_set/G/72.png

inflating: Dataset/training_set/G/720.png

inflating: Dataset/training_set/G/721.png

inflating: Dataset/training_set/G/722.png

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inflating: Dataset/training_set/G/73.png

inflating: Dataset/training_set/G/730.png

inflating: Dataset/training_set/G/731.png

inflating: Dataset/training_set/G/732.png

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inflating: Dataset/training_set/G/739.png

inflating: Dataset/training_set/G/74.png

inflating: Dataset/training_set/G/740.png

extracting: Dataset/training_set/G/741.png

inflating: Dataset/training_set/G/742.png

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inflating: Dataset/training_set/G/744.png

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inflating: Dataset/training_set/G/76.png

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inflating: Dataset/training_set/G/766.png

inflating: Dataset/training_set/G/767.png

inflating: Dataset/training_set/G/768.png

extracting: Dataset/training_set/G/769.png

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extracting: Dataset/training_set/G/797.png

extracting: Dataset/training set/G/798.png

inflating: Dataset/training_set/G/799.png

inflating: Dataset/training_set/G/8.png

inflating: Dataset/training_set/G/80.png

extracting: Dataset/training_set/G/800.png

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inflating: Dataset/training_set/G/811.png

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Dataset/training_set/G/819.png

inflating: Dataset/training_set/G/82.png

inflating: Dataset/training_set/G/820.png

inflating: Dataset/training_set/G/821.png

inflating: Dataset/training_set/G/822.png

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inflating: Dataset/training_set/G/831.png

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Dataset/training_set/G/838.png

extracting:

Dataset/training_set/G/839.png

inflating:

Dataset/training_set/G/84.png

inflating:

Dataset/training_set/G/840.png

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Dataset/training_set/G/841.png

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Dataset/training_set/G/842.png

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Dataset/training_set/G/843.png

inflating:

Dataset/training_set/G/844.png

extracting:

Dataset/training_set/G/845.png

inflating:

Dataset/training_set/G/846.png

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inflating: Dataset/training_set/G/857.png

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Dataset/training_set/G/862.png

Dataset/training_set/G/863.png

Dataset/training_set/G/864.png

inflating: Dataset/training set/G/865.png

inflating: Dataset/training_set/G/866.png

inflating: Dataset/training_set/G/867.png

inflating: Dataset/training_set/G/868.png

inflating: Dataset/training_set/G/869.png

inflating: Dataset/training_set/G/87.png

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inflating: Dataset/training_set/G/910.png

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inflating: Dataset/training_set/G/913.png

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inflating: Dataset/training_set/G/92.png

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inflating: Dataset/training_set/G/920.png

inflating: Dataset/training_set/G/921.png

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inflating: Dataset/training_set/G/94.png

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extracting: Dataset/training_set/H/1166.png

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extracting: Dataset/training_set/H/1207.png

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extracting: Dataset/training_set/H/1250.png

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Dataset/training_set/H/129.png

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Dataset/training_set/H/131.png

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          extracting:
          Dataset/training_set/H/1400.png
          inflating:
          Dataset/training_set/H/1401.png
          inflating:
          Dataset/training_set/H/1402.png
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          Dataset/training_set/H/1403.png
          extracting:
          Dataset/training_set/H/1404.png
          inflating:
          Dataset/training_set/H/1405.png
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          Dataset/training_set/H/1406.png
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Dataset/training_set/H/1504.png inflating:
Dataset/training_set/H/1505.png inflating:
Dataset/training_set/H/1506.pn Applying
ImageDataGenerator to training set
```

inflating: inflating:

 $x_{train}=train_datagen.flow_from_directory('/content/Dataset/training_set',target_size=(64,64),b$ atch_size=200,

class_mode='categorical',color_mode="grayscale")

Found 15750 images belonging to 9 classes.

Applying ImageDataGenerator to test set

```
x_test=test_datagen.flow_from_directory('/content/Dataset/test_set',target_size=(64,64),batch_
size=200,
                         class_mode='categorical',color_mode="grayscale")
Found 2250 images belonging to 9 classes.
a=len(x_train)
b=len(x_test) Length of
training set
print(a)
79
Length of test set
print(b)
12
Add Layers
#create model
model=Sequential() Add The
Convolution Layer
model.add(Convolution2D(32,(3,3),input_shape=(64,64,1),activation='relu')) Add
Pooling Layer
model.add(MaxPooling2D(pool_size=(2,2)))
Add The Flatten Layer
model.add(Flatten())
```

NameError Traceback (most recent call last) ~\AppData\Local\Temp\ipykernel 30084\2564012816.py in ----> 1 model.add(Flatten()) NameError: name 'model' is not defined Adding The Dense Layers #1st hidden layer model.add(Dense(units=512,activation='relu')) #2nd hidden layer model.add(Dense(units=261,activation='relu')) #output layer model.add(Dense(units=9,activation='softmax')) Compile The Model model.compile(loss='categorical_crossentropy',optimizer='adam',metrics=['accuracy']) Fit The Model model.fit_generator(x_train,steps_per_epoch=len(x_train),epochs=10,validation_data=x_test,vali dation_steps=len(x_test)) /usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:1: UserWarning: `Model.fit_generator` is deprecated and will be removed in a future version. Please use `Model.fit`, which supports generators. """Entry point for launching an IPython kernel. Epoch 1/10 79/79 [=============] - 90s 1s/step - loss: 0.3965 - accuracy: 0.8746 val_loss: 0.2797 - val_accuracy: 0.9529 Epoch 2/10

```
79/79 [==========] - 86s 1s/step - loss: 0.0419 - accuracy: 0.9884 val_loss:
0.2846 - val accuracy: 0.9751
Epoch 3/10
0.3436 - val accuracy: 0.9751
Epoch 4/10
0.3722 - val_accuracy: 0.9751
Epoch 5/10
79/79 [===========] - 83s 1s/step - loss: 0.0066 - accuracy: 0.9983 val_loss:
0.4095 - val_accuracy: 0.9756
Epoch 6/10
0.3874 - val_accuracy: 0.9756
Epoch 7/10
0.3891 - val_accuracy: 0.9747
Epoch 8/10
0.4429 - val accuracy: 0.9756
Epoch 9/10
79/79 [=========] - 84s 1s/step - loss: 0.0073 - accuracy: 0.9981 val_loss:
0.4907 - val_accuracy: 0.9756
Epoch 10/10
79/79 [============== - 85s 1s/step - loss: 0.0048 - accuracy: 0.9987 val_loss:
0.4866 - val_accuracy: 0.9702 Save The Model
model.save('aslpng2.h5')
```

Import The Packages And Load The Saved Model

```
from tensorflow.keras.models import load_model
import numpy as np
import cv2 from tensorflow.keras.preprocessing import
image
#load the model
model=load_model('aslpng2.h5')
img=image.load_img('/content/Dataset/test_set/A/10.png',target_size=(400,500))
img
```