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

TEAM ID: PNT2022TMID43607

```python
#import imagedatagenerator

from keras.preprocessing.image import ImageDataGenerator#training

datagen

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

#testing datagen

test_datagen=ImageDataGenerator(rescale=1./255)
```

IMPORTING tensorflow

```python
import tensorflow as tf

import os
```

Initialize The Model

```python
#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
```

```python
import IPython.display as display
from PIL import Image
import pathlib
```

Unzipping the dataset

```
!unzip '/content/conversation engine for deaf and dumb (1).zip'
```

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Applying ImageDataGenerator to training set

x_train=train_datagen.flow_from_directory('/content/Dataset/training_set',target_size=(64,64),batch_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,validation_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

79/79 [==============================] - 84s 1s/step - loss: 0.0195 - accuracy: 0.9947 - val_loss: 0.3436 - val_accuracy: 0.9751

Epoch 4/10

79/79 [==============================] - 87s 1s/step - loss: 0.0083 - accuracy: 0.9982 - val_loss: 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

79/79 [==============================] - 88s 1s/step - loss: 0.0072 - accuracy: 0.9979 - val_loss: 0.3874 - val_accuracy: 0.9756

Epoch 7/10

79/79 [==============================] - 86s 1s/step - loss: 0.0059 - accuracy: 0.9985 - val_loss: 0.3891 - val_accuracy: 0.9747

Epoch 8/10

79/79 [==============================] - 86s 1s/step - loss: 0.0027 - accuracy: 0.9992 - val_loss: 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_modelimport

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