

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

TEAM ID: PNT2022TMID30475

```
#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

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.

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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_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
```