

## IMPORT LIBRARIES

```
from tensorflow.keras.models import Sequential
```

```
from tensorflow.keras.layers import Dense, Conv2D, Flatten, Dropout, MaxPooling2D
```

```
from tensorflow.keras.preprocessing.image import ImageDataGenerator
```

```
import numpy as np
```

```
import matplotlib.pyplot as plt
```

```
import cv2
```

```
unzip the file
```

```
!unzip '/content/drive/MyDrive/IBMPROJECT/conversation engine for deaf and dumb.zip'
```

Streaming output truncated to the last 5000 lines.

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inflating: Dataset/training\_set/I/999.png

## DATA AUGMENTATION

```
from keras.preprocessing.image import ImageDataGenerator
```

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

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

```
x_train = train_datagen.flow_from_directory("/content/Dataset/training_set",  
target_size=(64,64),batch_size=100,
```

```
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=100,
```

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

Found 2250 images belonging to 9 classes.

```
len(x_train)
```

```
158
```

```
len(x_test)
```

```
23
```

```
x_train.class_indices
```

```
{'A': 0, 'B': 1, 'C': 2, 'D': 3, 'E': 4, 'F': 5, 'G': 6, 'H': 7, 'I': 8}
```

## MODEL BUILDING

```

from keras.models import Sequential

from keras.layers import Dense

from keras.layers import Convolution2D

from tensorflow.keras.layers import Conv2D, MaxPooling2D

from keras.layers import Dropout

from keras.layers import Flatten

#Creating the model

model=Sequential()

#Adding the layers

model.add(Convolution2D(32,(3,3), input_shape=(64,64,1), activation = 'relu'))

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

model.add(Flatten())


#adding hidden layers

model.add(Dense(400, activation='relu'))

model.add(Dense(200, activation='relu'))

model.add(Dense(100, activation='relu'))


#Adding the output layer

model.add(Dense(9, activation='softmax'))

model.compile(loss='categorical_crossentropy', optimizer='adam', metrics=['accuracy'])

model.fit_generator(x_train, steps_per_epoch=30, epochs=10,
validation_data=x_test,validation_steps=50)

Epoch 1/10

/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.

30/30 [=====] - ETA: 0s - loss: 0.0083 - accuracy: 0.9957

WARNING:tensorflow:Your input ran out of data; interrupting training. Make sure that your dataset or generator can generate at least `steps\_per\_epoch \* epochs` batches (in this case, 50 batches). You may need to use the repeat() function when building your dataset.

30/30 [=====] - 18s 587ms/step - loss: 0.0083 - accuracy: 0.9957  
- val\_loss: 0.2910 - val\_accuracy: 0.9693

Epoch 2/10

30/30 [=====] - 12s 402ms/step - loss: 0.0081 - accuracy: 0.9980

Epoch 3/10

30/30 [=====] - 12s 400ms/step - loss: 0.0102 - accuracy: 0.9963

Epoch 4/10

30/30 [=====] - 12s 402ms/step - loss: 0.0049 - accuracy: 0.9993

Epoch 5/10

30/30 [=====] - 12s 402ms/step - loss: 0.0030 - accuracy: 0.9997

Epoch 6/10

30/30 [=====] - 12s 394ms/step - loss: 0.0019 - accuracy: 0.9997

Epoch 7/10

30/30 [=====] - 12s 401ms/step - loss: 0.0081 - accuracy: 0.9973

Epoch 8/10

30/30 [=====] - 12s 402ms/step - loss: 0.0124 - accuracy: 0.9960

Epoch 9/10

30/30 [=====] - 12s 401ms/step - loss: 0.0070 - accuracy: 0.9987

Epoch 10/10

30/30 [=====] - 12s 399ms/step - loss: 0.0089 - accuracy: 0.9973

TEST THE MODEL

```
from tensorflow.keras.models import load_model
from tensorflow.keras.preprocessing import image
import numpy as np
import cv2

model = load_model('/content/Real_time.h5')

img = image.load_img('/content/Dataset/test_set/H/107.png',target_size = (100,100))

img
```

```
from skimage.transform import resize

def detect(frame):

    img=image.img_to_array(frame)

    img = resize(img,(64,64,1))

    img = np.expand_dims(img,axis=0)

    pred=np.argmax(model.predict(img))

    op=['A','B','C','D','E','F','G','H','I']

    print("THE PREDICTED LETTER IS ",op[pred])

img=image.load_img("/content/Dataset/test_set/H/107.png")

detect(img)

1/1 [=====] - 0s 28ms/step

THE PREDICTED LETTER IS  H

img = image.load_img('/content/Dataset/test_set/A/110.png')

pred=detect(img)

1/1 [=====] - 0s 26ms/step

THE PREDICTED LETTER IS  A

img=image.load_img('/content/Dataset/test_set/E/111.png')
```

detect(img)

1/1 [=====] - 0s 30ms/step

THE PREDICTED LETTER IS Eligible