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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'
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inflating: Dataset/training_set/I/969.png
inflating: Dataset/training_set/I/97.png
inflating: Dataset/training_set/I/970.png
inflating: Dataset/training_set/I/971.png
inflating: Dataset/training_set/I/972.png
extracting: Dataset/training_set/I/973.png
inflating: Dataset/training_set/I/974.png
inflating: Dataset/training_set/I/975.png
inflating: Dataset/training_set/I/976.png
inflating: Dataset/training_set/I/977.png
inflating: Dataset/training_set/I/978.png
inflating: Dataset/training_set/I/979.png
inflating: Dataset/training_set/I/98.png
inflating: Dataset/training_set/I/980.png
inflating: Dataset/training_set/I/981.png
inflating: Dataset/training_set/I/982.png
extracting: Dataset/training_set/I/983.png
inflating: Dataset/training_set/I/984.png
inflating: Dataset/training_set/I/985.png
inflating: Dataset/training_set/I/986.png
inflating: Dataset/training_set/I/987.png
inflating: Dataset/training_set/I/988.png
inflating: Dataset/training_set/I/989.png
inflating: Dataset/training_set/I/99.png
inflating: Dataset/training_set/I/990.png
inflating: Dataset/training_set/I/991.png
inflating: Dataset/training_set/I/992.png
extracting: Dataset/training_set/I/993.png
inflating: Dataset/training_set/I/994.png
inflating: Dataset/training_set/I/995.png
extracting: Dataset/training_set/I/996.png
inflating: Dataset/training_set/I/997.png
inflating: Dataset/training_set/I/998.png
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
model.save('Real_time.h5')
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  E
```