

MODEL BUILDING

In [1]:

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

Streaming output truncated to the last 5000 lines.

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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
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extracting: Dataset/training_set/G/1230.png
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```


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[illegible]

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inflating: Dataset/training_set/I/999.png
```

TRAIN AND TEST THE DATA

In [2]:


```

from keras.preprocessing.image import ImageDataGenerator
train_datagen=ImageDataGenerator(rescale      =      1./255,      shear_range=0.2,
zoom_range=0.2,horizontal_flip=True)
test_datagen = ImageDataGenerator(rescale=1./255)

```

In [3]:

```

x_train  =  train_datagen.flow_from_directory("/content/Dataset/training_set",
target_size=(64,64),batch_size=300,
                                         class_mode='categorical',
color_mode ="grayscale")

```

Found 15750 images belonging to 9 classes.

In [4]:

```

x_test      =      test_datagen.flow_from_directory("/content/Dataset/test_set",
target_size=(64,64),batch_size=300,
                                         class_mode='categorical',  color_mode
="grayscale")

```

Found 2250 images belonging to 9 classes.

In []:

MODEL BUILDING

In [5]:

```

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

```

In [6]:

```

model=Sequential()

```

In [7]:

```

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

```

In [8]:

```

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

```

In [9]:

```

model.add(Flatten())

```

In [14]:

```

model.add(Dense( units=512, activation='relu'))

```

In [15]:

```

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

```

In [16]:

```

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

```

In [17]:

```

model.fit_generator(x_train,      steps_per_epoch=24,      epochs=10,
validation_data=x_test,validation_steps=40)

```

```
/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
```

```
24/24 [=====] - 17s 666ms/step - loss: 1.9786 -
accuracy: 0.5628
```

```
Epoch 2/10
```

```
24/24 [=====] - 16s 662ms/step - loss: 1.4525 -
accuracy: 0.6621
```

```
Epoch 3/10
```

```
24/24 [=====] - 16s 676ms/step - loss: 0.9580 -
accuracy: 0.6842
```

```
Epoch 4/10
```

```
24/24 [=====] - 16s 675ms/step - loss: 0.7076 -
accuracy: 0.7240
```

```
Epoch 5/10
```

```
24/24 [=====] - 16s 659ms/step - loss: 0.6103 -
accuracy: 0.7488
```

```
Epoch 6/10
```

```
24/24 [=====] - 16s 663ms/step - loss: 0.5005 -
accuracy: 0.8054
```

```
Epoch 7/10
```

```
24/24 [=====] - 17s 679ms/step - loss: 0.4164 -
accuracy: 0.8904
```

```
Epoch 8/10
```

```
24/24 [=====] - 18s 723ms/step - loss: 0.3408 -
accuracy: 0.8994
```

```
Epoch 9/10
```

```
24/24 [=====] - 16s 659ms/step - loss: 0.2641 -
accuracy: 0.9536
```

```
Epoch 10/10
```

```
24/24 [=====] - 16s 664ms/step - loss: 0.1676 -
accuracy: 0.9672
```

```
Out[17]:
```

```
In [18]:
```

```
model.save('RSL.h5')
```

```
In [ ]:
```