

Model Building

Import The Required Model Building Libraries

```
In [1]:
#import imagedatagenerator
from keras.preprocessing.image import ImageDataGenerator
In [2]:
#training datagen
train_datagen=ImageDataGenerator(rescale=1./255,shear_range=0.2,zoom_range=0.2,horizontal_flip=True)
In [3]:
#testing datagen
test_datagen=ImageDataGenerator(rescale=1./255)
IMPORTING tensorflow
```

```
In [4]:
import tensorflow as tf
import os
Initialize The Model
```

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In [13]:
#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
In [6]:
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
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In [7]:
!unzip '/content/conversation engine for deaf and dumb (1).zip'
Streaming output truncated to the last 5000 lines.
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