

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

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
```

In [7]:

```
!unzip '/content/conversation engine for deaf and dumb (1).zip'
```

Streaming output truncated to the last 5000 lines.

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