

Project Name: Real-Time Communication System Powered by AI for Specially Abled

TEAM ID:

PNT2022TMID45340

Model Building

Import The Required Model Building Libraries

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

In [1]:

```
#training datagen  
train_datagen=ImageDataGenerator(rescale=1./255, shear_range=0.2, zoom_range  
= 0.2, horizontal_flip=True)
```

In [2]:

```
#testing datagen  
test_datagen=ImageDataGenerator(rescale=1./255)  
IMPORTING tensorflow
```

In [3]:

```
import tensorflow as tf  
import os
```

In [4]:

IMPORTING LIBRARIES TO INITIALIZE NEURAL NETWORK LAYER

```
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 [13]:

```
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
```

In [6]:

Unzipping the dataset

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

In [7]:

Streaming output truncated to the last 5000 lines.

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inflating: Dataset/training_set/I/396.png
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