

Project: Real-Time Communication system powered by AI for specially abled

Team ID: PNT2022TMID30475

## Model Building

### Import The Required Model Building Libraries

```
from google.colab import drive  
drive.mount('/content/drive')  
  
Drive already mounted at /content/drive; to attempt to forcibly remount, call  
drive.mount("/content/drive", force_remount=True).  
  
#import imagedatagenerator
```

```
from keras.preprocessing.image import ImageDataGenerator  
  
#training datagen
```

IMPORTING tensorflow

```
import tensorflow as tf
```

```
import os
```

Initialize The Model

```
#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  
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
```

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

```
Streaming output truncated to the last 5000 lines.
```

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```

Applying ImageDataGenerator to training set

```
x_train=train_datagen.flow_from_directory('/content/Dataset/training_set',target_size=(64,64),batch_size=200,
                                         class_mode='categorical',color_mode="grayscale")
```

```
Found 15750 images belonging to 9 classes.
```

```
Applying ImageDataGenerator to test set
```

```
x_test=test_datagen.flow_from_directory('/content/Dataset/test_set',target_size=(64,64),batch_size=200,  
                                         class_mode='categorical',color_mode="grayscale")
```

```
Found 2250 images belonging to 9 classes.
```

```
a=len(x_train)
```

```
b=len(x_test)
```

```
Length Of Training Set
```

```
print(a)
```

```
79
```

```
Length of test set
```

```
print(b)
```

```
12
```

```
#create model
```

```
model=Sequential()
```

```
Add The Convolution Layer
```

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