

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

Team ID: PNT2022TMID51692

## 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
```

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

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

```
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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inflating: Dataset/training\_set/G/438.png

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inflating: Dataset/training\_set/G/44.png

inflating: Dataset/training\_set/G/440.png

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Dataset/training\_set/G/442.png

Dataset/training\_set/G/443.png

inflating: inflating:

inflating: inflating:

Dataset/training\_set/G/444.png

Dataset/training\_set/G/445.png

Dataset/training\_set/G/446.png

Dataset/training\_set/G/447.png

Dataset/training\_set/G/448.png

inflating: Dataset/training\_set/G/449.png

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inflating: Dataset/training\_set/G/451.png

inflating: Dataset/training\_set/G/452.png

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inflating: Dataset/training\_set/G/46.png

inflating: Dataset/training\_set/G/460.png

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inflating: Dataset/training\_set/G/466.png

inflating: inflating:

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inflating: inflating:

extracting: Dataset/training\_set/G/467.png

extracting: Dataset/training\_set/G/468.png

inflating: Dataset/training\_set/G/469.png

inflating: Dataset/training\_set/G/47.png

inflating: Dataset/training\_set/G/470.png

inflating: Dataset/training\_set/G/471.png

extracting: Dataset/training\_set/G/472.png

extracting: Dataset/training\_set/G/473.png

extracting: Dataset/training\_set/G/474.png

inflating: Dataset/training\_set/G/475.png

inflating: Dataset/training\_set/G/476.png

extracting: Dataset/training\_set/G/477.png

inflating: Dataset/training\_set/G/478.png

inflating: Dataset/training\_set/G/479.png

inflating: Dataset/training\_set/G/48.png

extracting: Dataset/training\_set/G/480.png

inflating: Dataset/training\_set/G/481.png

inflating: Dataset/training\_set/G/482.png

extracting: Dataset/training\_set/G/483.png

inflating: Dataset/training\_set/G/484.png

inflating: Dataset/training\_set/G/485.png

inflating: Dataset/training\_set/G/486.png

extracting: Dataset/training\_set/G/487.png

Dataset/training\_set/G/488.png

Dataset/training\_set/G/489.png

Dataset/training\_set/G/49.png

inflating: inflating:

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Dataset/training\_set/G/490.png

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Dataset/training\_set/G/492.png

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inflating: Dataset/training\_set/G/583.png

inflating:



inflating: inflating:

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inflating: Dataset/training\_set/G/584.png

inflating: Dataset/training\_set/G/585.png

extracting: Dataset/training\_set/G/586.png

Dataset/training\_set/G/587.png

Dataset/training\_set/G/588.png

Dataset/training\_set/G/589.png

Dataset/training\_set/G/59.png

extracting: Dataset/training\_set/G/590.png

inflating: Dataset/training\_set/G/591.png

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inflating: Dataset/training\_set/G/595.png

extracting: Dataset/training\_set/G/596.png

extracting: Dataset/training\_set/G/597.png

inflating: Dataset/training\_set/G/598.png

extracting: Dataset/training\_set/G/599.png

inflating: Dataset/training\_set/G/6.png

inflating: Dataset/training\_set/G/60.png

inflating: Dataset/training\_set/G/600.png

inflating: Dataset/training\_set/G/601.png

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inflating: Dataset/training\_set/G/602.png

extracting: Dataset/training\_set/G/603.png

inflating: Dataset/training\_set/G/604.png

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inflating: Dataset/training\_set/G/619.png

inflating: Dataset/training\_set/G/62.png

inflating: Dataset/training\_set/G/620.png

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inflating: Dataset/training\_set/G/627.png

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Dataset/training\_set/G/629.png

Dataset/training\_set/G/63.png

Dataset/training\_set/G/630.png

Dataset/training\_set/G/631.png

inflating: inflating:

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Dataset/training\_set/G/632.png

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inflating: Dataset/training\_set/G/650.png

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inflating: Dataset/training\_set/G/669.png

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inflating: Dataset/training\_set/G/67.png

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Dataset/training\_set/G/674.png

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Dataset/training\_set/G/680.png

inflating: Dataset/training\_set/G/681.png

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inflating: Dataset/training\_set/G/689.png

inflating: Dataset/training\_set/G/69.png

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Dataset/training\_set/G/699.png

Dataset/training\_set/G/7.png

inflating: inflating:

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inflating: inflating:

Dataset/training\_set/G/70.png

Dataset/training\_set/G/700.png

extracting: Dataset/training\_set/G/701.png

inflating: Dataset/training\_set/G/702.png

inflating: Dataset/training\_set/G/703.png

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inflating: Dataset/training\_set/G/707.png

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inflating: Dataset/training\_set/G/709.png

inflating: Dataset/training\_set/G/71.png

inflating: Dataset/training\_set/G/710.png

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inflating: Dataset/training\_set/I/566.png

inflating: Dataset/training\_set/I/567.png

inflating: Dataset/training\_set/I/568.png

inflating: Dataset/training\_set/I/569.png

inflating: Dataset/training\_set/I/57.png

inflating: Dataset/training\_set/I/570.png

inflating: Dataset/training\_set/I/571.png

inflating: Dataset/training\_set/I/572.png

inflating: Dataset/training\_set/I/573.png

extracting: Dataset/training\_set/I/574.png



extracting: Dataset/training\_set/l/575.png

inflating: Dataset/training\_set/l/576.png

inflating: Dataset/training\_set/l/577.png

inflating: Dataset/training\_set/l/578.png

extracting: Dataset/training\_set/l/579.png

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inflating: Dataset/training\_set/l/589.png

inflating: Dataset/training\_set/l/59.png

inflating: Dataset/training\_set/l/590.png

inflating: Dataset/training\_set/l/591.png

extracting: Dataset/training\_set/l/592.png

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Dataset/training\_set/l/597.png

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Dataset/training\_set/l/60.png

extracting: Dataset/training\_set/l/600.png

inflating: Dataset/training\_set/l/601.png

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inflating: Dataset/training\_set/l/612.png

inflating: Dataset/training\_set/l/613.png

extracting: Dataset/training\_set/l/614.png

inflating: Dataset/training\_set/l/615.png

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Dataset/training\_set/l/617.png

Dataset/training\_set/l/618.png

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Dataset/training\_set/I/619.png

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Dataset/training\_set/l/622.png

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inflating: Dataset/training\_set/l/624.png

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inflating: Dataset/training\_set/l/629.png

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inflating: Dataset/training\_set/I/656.png

extracting: Dataset/training\_set/I/657.png

extracting: Dataset/training\_set/I/658.png

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inflating: Dataset/training\_set/l/661.png

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inflating: Dataset/training\_set/l/663.png

extracting: Dataset/training\_set/l/664.png

Dataset/training\_set/l/665.png

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extracting: Dataset/training\_set/l/678.png

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inflating: Dataset/training\_set/l/682.png

extracting: Dataset/training\_set/l/683.png

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inflating: Dataset/training\_set/l/692.png

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extracting: Dataset/training\_set/l/694.png

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inflating: Dataset/training\_set/l/699.png

extracting: Dataset/training\_set/l/7.png

extracting: Dataset/training\_set/l/70.png

extracting: Dataset/training\_set/l/700.png

inflating: Dataset/training\_set/l/701.png

inflating: Dataset/training\_set/l/702.png

inflating: Dataset/training\_set/l/703.png

inflating: Dataset/training\_set/l/704.png

extracting: Dataset/training\_set/l/705.png

Dataset/training\_set/l/706.png

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Dataset/training\_set/l/712.png

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extracting: Dataset/training\_set/l/731.png

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inflating: Dataset/training\_set/l/74.png

extracting: Dataset/training\_set/l/740.png

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inflating: Dataset/training\_set/l/746.png

extracting: Dataset/training\_set/l/747.png

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inflating: Dataset/training\_set/l/763.png

inflating: Dataset/training\_set/l/764.png

extracting: Dataset/training\_set/l/765.png

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inflating: Dataset/training\_set/l/773.png

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Dataset/training\_set/l/78.png

Dataset/training\_set/l/780.png

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extracting: Dataset/training\_set/l/794.png

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Dataset/training\_set/l/797.png

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Dataset/training\_set/l/799.png

Dataset/training\_set/l/8.png

Dataset/training\_set/l/80.png

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Dataset/training\_set/l/820.png

Dataset/training\_set/l/821.png

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extracting: Dataset/training\_set/l/841.png

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extracting: Dataset/training\_set/l/86.png

inflating: Dataset/training\_set/l/860.png

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extracting: Dataset/training\_set/l/863.png

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Dataset/training\_set/l/865.png

Dataset/training\_set/l/866.png

Dataset/training\_set/l/867.png

extracting: Dataset/training\_set/l/868.png

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Dataset/training\_set/l/957.png

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Dataset/training\_set/1/970.png inflating:

Dataset/training\_set/1/971.png inflating:

Dataset/training\_set/1/972.png extracting:

Dataset/training\_set/1/973.png inflating:

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extracting: Dataset/training\_set/l/983.png inflating:

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Dataset/training\_set/l/991.png inflating:

Dataset/training\_set/l/992.png extracting:

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Dataset/training\_set/l/995.png extracting:

Dataset/training\_set/l/996.png inflating:

Dataset/training\_set/l/997.png inflating:

Dataset/training\_set/l/998.png inflating:

Dataset/training\_set/l/999.png 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'))
```