

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

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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extracting: Dataset/training_set/G/394.png

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inflating: Dataset/training_set/G/436.png

inflating: Dataset/training_set/G/437.png

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inflating: Dataset/training_set/G/441.png

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Dataset/training_set/G/451.png

inflating: Dataset/training_set/G/452.png

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inflating: Dataset/training_set/G/46.png

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inflating: Dataset/training_set/G/460.png

inflating: Dataset/training_set/G/461.png

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inflating: Dataset/training_set/G/464.png

inflating: Dataset/training_set/G/465.png

inflating: Dataset/training_set/G/466.png

extracting: Dataset/training_set/G/467.png

extracting: Dataset/training_set/G/468.png

Dataset/training_set/G/469.png

Dataset/training_set/G/47.png

Dataset/training_set/G/470.png

inflating: inflating:

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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

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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

inflating: Dataset/training_set/G/488.png

inflating: Dataset/training_set/G/489.png

inflating: Dataset/training_set/G/49.png

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inflating: Dataset/training_set/G/498.png

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inflating: Dataset/training_set/G/5.png

inflating: Dataset/training_set/G/50.png

inflating: Dataset/training_set/G/500.png

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inflating: Dataset/training_set/G/51.png

inflating: Dataset/training_set/G/510.png

inflating: Dataset/training_set/G/511.png

Dataset/training_set/G/512.png

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inflating: Dataset/training_set/G/52.png

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inflating: Dataset/training_set/G/529.png

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inflating: Dataset/training_set/G/531.png

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Dataset/training_set/G/541.png

inflating: Dataset/training_set/G/542.png

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inflating: Dataset/training_set/G/568.png

inflating: Dataset/training_set/G/569.png

inflating: Dataset/training_set/G/57.png

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inflating: Dataset/training_set/G/572.png

inflating: Dataset/training_set/G/573.png

inflating: Dataset/training_set/G/574.png

extracting: Dataset/training_set/G/575.png

inflating: Dataset/training_set/G/576.png

inflating: Dataset/training_set/G/577.png

inflating: Dataset/training_set/G/578.png

inflating: Dataset/training_set/G/579.png

inflating: Dataset/training_set/G/58.png

inflating:

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extracting: Dataset/training_set/G/580.png

inflating: Dataset/training_set/G/581.png

extracting: Dataset/training_set/G/582.png

Dataset/training_set/G/583.png

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Dataset/training_set/G/585.png

extracting: Dataset/training_set/G/586.png

inflating: Dataset/training_set/G/587.png

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inflating: Dataset/training_set/G/589.png

inflating: Dataset/training_set/G/59.png

extracting: Dataset/training_set/G/590.png

inflating: Dataset/training_set/G/591.png

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extracting: Dataset/training_set/G/596.png

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extracting: Dataset/training_set/G/599.png

inflating: Dataset/training_set/G/6.png

inflating: Dataset/training_set/G/60.png

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inflating: Dataset/training_set/G/600.png

inflating: Dataset/training_set/G/601.png

inflating: Dataset/training_set/G/602.png

extracting: Dataset/training_set/G/603.png

Dataset/training_set/G/604.png

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inflating: Dataset/training_set/G/61.png

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inflating: Dataset/training_set/G/618.png

inflating: Dataset/training_set/G/619.png

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inflating: Dataset/training_set/G/62.png

inflating: Dataset/training_set/G/620.png

inflating: Dataset/training_set/G/621.png

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Dataset/training_set/G/628.png

inflating: inflating:

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Dataset/training_set/G/629.png

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Dataset/training_set/G/630.png

Dataset/training_set/G/631.png

inflating: Dataset/training_set/G/632.png

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inflating: Dataset/training_set/G/647.png

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inflating: Dataset/training_set/G/678.png

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inflating: Dataset/training_set/G/692.png

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Dataset/training_set/G/699.png

Dataset/training_set/G/7.png

inflating: Dataset/training_set/G/70.png

inflating: Dataset/training_set/G/700.png

extracting: Dataset/training_set/G/701.png

inflating: Dataset/training_set/G/702.png

inflating: inflating:

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inflating: Dataset/training_set/G/703.png

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inflating: Dataset/training_set/G/71.png

inflating: Dataset/training_set/G/710.png

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Dataset/training_set/G/719.png

Dataset/training_set/G/72.png

Dataset/training_set/G/720.png

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Dataset/training_set/G/721.png

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inflating: Dataset/training_set/G/737.png

Dataset/training_set/G/738.png

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Dataset/training_set/G/74.png

inflating: inflating:

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Dataset/training_set/G/740.png

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extracting: Dataset/training_set/G/741.png

inflating: Dataset/training_set/G/742.png

inflating: Dataset/training_set/G/743.png

inflating: Dataset/training_set/G/744.png

inflating: Dataset/training_set/G/745.png

inflating: Dataset/training_set/G/746.png

inflating: Dataset/training_set/G/747

extracting: Dataset/training_set/I/600.png

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inflating: Dataset/training_set/I/602.png

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inflating: Dataset/training_set/I/613.png

extracting: Dataset/training_set/I/614.png

Dataset/training_set/I/615.png

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Dataset/training_set/l/616.png

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inflating: Dataset/training_set/l/619.png

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extracting: Dataset/training_set/l/657.png

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extracting: Dataset/training_set/l/658.png

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Dataset/training_set/I/662.png

Dataset/training_set/I/663.png

extracting: Dataset/training_set/I/664.png

inflating: Dataset/training_set/I/665.png

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inflating: Dataset/training_set/I/677.png

extracting: Dataset/training_set/I/678.png

inflating: Dataset/training_set/I/679.png

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inflating: Dataset/training_set/I/680.png

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inflating: Dataset/training_set/I/682.png

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extracting: Dataset/training_set/l/683.png

Dataset/training_set/l/684.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

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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

Dataset/training_set/l/707.png

Dataset/training_set/l/708.png

Dataset/training_set/l/709.png

Dataset/training_set/l/71.png

inflating: Dataset/training_set/l/710.png

inflating: Dataset/training_set/l/711.png

inflating: Dataset/training_set/l/712.png

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inflating: Dataset/training_set/l/714.png

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inflating: Dataset/training_set/l/719.png

inflating: Dataset/training_set/l/72.png

inflating: Dataset/training_set/l/720.png

inflating: Dataset/training_set/l/721.png

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inflating: Dataset/training_set/l/722.png

inflating: Dataset/training_set/l/723.png

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Dataset/training_set/l/73.png

Dataset/training_set/l/730.png

extracting: Dataset/training_set/l/731.png

inflating: Dataset/training_set/l/732.png

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inflating: Dataset/training_set/l/737.png

inflating: Dataset/training_set/l/738.png

extracting: Dataset/training_set/l/739.png

inflating: Dataset/training_set/l/74.png

extracting: Dataset/training_set/l/740.png

inflating: Dataset/training_set/l/741.png

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inflating: Dataset/training_set/l/746.png

extracting: Dataset/training_set/l/747.png

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Dataset/training_set/l/749.png

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Dataset/training_set/l/755.png

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inflating: Dataset/training_set/l/764.png

extracting: Dataset/training_set/l/765.png

inflating: Dataset/training_set/l/766.png

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extracting: Dataset/training_set/l/794.png

Dataset/training_set/l/795.png

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inflating: Dataset/training_set/l/81.png

extracting: Dataset/training_set/l/810.png

inflating: Dataset/training_set/l/811.png

inflating: Dataset/training_set/l/812.png

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inflating: Dataset/training_set/l/840.png

extracting: Dataset/training_set/l/841.png

Dataset/training_set/l/842.png

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extracting: Dataset/training_set/l/86.png

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inflating: Dataset/training_set/l/862.png

extracting: Dataset/training_set/l/863.png

Dataset/training_set/l/864.png

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Dataset/training_set/l/867.png

extracting: Dataset/training_set/l/868.png

inflating: Dataset/training_set/l/869.png

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extracting: Dataset/training_set/l/887.png

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extracting: Dataset/training_set/l/905.png

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Dataset/training_set/l/910.png

extracting: Dataset/training_set/l/911.png

extracting: Dataset/training_set/l/912.png

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inflating: Dataset/training_set/l/914.png

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Dataset/training_set/l/93.png

Dataset/training_set/l/930.png

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Dataset/training_set/l/932.png

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Dataset/training_set/I/96.png inflating:

Dataset/training_set/I/960.png inflating:

Dataset/training_set/I/961.png inflating:

Dataset/training_set/I/962.png inflating:

Dataset/training_set/I/963.png inflating:

Dataset/training_set/I/964.png inflating:

Dataset/training_set/I/965.png inflating:

Dataset/training_set/I/966.png inflating:

Dataset/training_set/I/967.png inflating:

Dataset/training_set/I/968.png inflating:

Dataset/training_set/I/969.png inflating:

Dataset/training_set/I/97.png inflating:

Dataset/training_set/I/970.png inflating:

Dataset/training_set/I/971.png inflating:

Dataset/training_set/I/972.png

extracting: Dataset/training_set/I/973.png

Dataset/training_set/I/974.png

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Dataset/training_set/l/979.png

Dataset/training_set/l/98.png

Dataset/training_set/l/980.png inflating:

Dataset/training_set/l/981.png inflating:

Dataset/training_set/l/982.png extracting:

Dataset/training_set/l/983.png inflating:

Dataset/training_set/l/984.png inflating:

Dataset/training_set/l/985.png inflating:

Dataset/training_set/l/986.png inflating:

Dataset/training_set/l/987.png inflating:

Dataset/training_set/l/988.png inflating:

Dataset/training_set/l/989.png inflating:

Dataset/training_set/l/99.png inflating:

Dataset/training_set/l/990.png inflating:

Dataset/training_set/l/991.png inflating:

Dataset/training_set/l/992.png extracting:

Dataset/training_set/l/993.png inflating:

Dataset/training_set/l/994.png inflating:

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),b
atch_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

Add Layers

```
#create model model=Sequential()
```

Add The Convolution Layer

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

Pooling Layer

```
model.add(MaxPooling2D(pool_size=(2,2))) Add The
```

Flatten Layer

```
model.add(Flatten())
```

Adding The Dense Layers

#1st hidden layer

```
model.add(Dense(units=512,activation='relu'))
```

#2nd hidden layer

```
model.add(Dense(units=261,activation='relu'))
```

```
#output layer model.add(Dense(units=9,activation='softmax'))
```