

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/392.png

inflating: Dataset/training_set/G/393.png

extracting: Dataset/training_set/G/394.png

inflating: Dataset/training_set/G/395.png

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extracting: Dataset/training_set/G/417.png

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extracting: Dataset/training_set/G/467.png

extracting: Dataset/training_set/G/468.png

Dataset/training_set/G/469.png

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extracting: Dataset/training_set/G/472.png

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extracting: Dataset/training_set/G/575.png

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inflating: Dataset/training_set/G/58.png

extracting: Dataset/training_set/G/580.png

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inflating: Dataset/training_set/G/700.png

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extracting: Dataset/training_set/G/701.png

inflating: Dataset/training_set/G/702.png

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Dataset/training_set/G/719.png

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Dataset/training_set/G/740.png

extracting: Dataset/training_set/G/741.png

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extracting: Dataset/training_set/G/769.png

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extracting: Dataset/training_set/G/797.png

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extracting: Dataset/training_set/G/798.png

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inflating: Dataset/training_set/G/80.png

extracting: Dataset/training_set/G/800.png

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inflating: Dataset/training_set/G/812.png

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inflating: Dataset/training_set/G/815.png

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inflating: Dataset/training_set/G/82.png

inflating: Dataset/training_set/G/820.png

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Dataset/training_set/G/83.png

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Dataset/training_set/G/832.png

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inflating: Dataset/training_set/G/838.png

extracting: Dataset/training_set/G/839.png

inflating: Dataset/training_set/G/84.png

inflating: Dataset/training_set/G/840.png

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inflating: Dataset/training_set/G/843.png

inflating: Dataset/training_set/G/844.png

extracting: Dataset/training_set/G/845.png

inflating: Dataset/training_set/G/846.png

inflating: Dataset/training_set/G/847.png

inflating: Dataset/training_set/G/848.png

inflating: Dataset/training_set/G/849.png

inflating: Dataset/training_set/G/85.png

inflating: inflating:

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extracting: Dataset/training_set/G/851.png

Dataset/training_set/G/852.png extracting:

Dataset/training_set/G/853.png inflating:

Dataset/training_set/G/854.png inflating:

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Dataset/training_set/G/860.png inflating:

Dataset/training_set/G/861.png inflating:

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Dataset/training_set/H/1001.png inflating:

Dataset/training_set/H/1002.png

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Dataset/training_set/l/799.png

Dataset/training_set/l/8.png

Dataset/training_set/l/80.png

Dataset/training_set/l/800.png

Dataset/training_set/l/801.png

inflating: Dataset/training_set/l/802.png

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inflating: Dataset/training_set/l/809.png

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/816.png

inflating: Dataset/training_set/l/817.png

Dataset/training_set/l/818.png

Dataset/training_set/l/819.png

Dataset/training_set/l/82.png

Dataset/training_set/l/820.png

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Dataset/training_set/l/821.png

Dataset/training_set/l/822.png

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Dataset/training_set/l/824.png

inflating: Dataset/training_set/l/825.png

inflating: Dataset/training_set/l/826.png

inflating: Dataset/training_set/l/827.png

inflating: Dataset/training_set/l/828.png

inflating: Dataset/training_set/l/829.png

inflating: Dataset/training_set/l/83.png

inflating: Dataset/training_set/l/830.png

inflating: Dataset/training_set/l/831.png

inflating: Dataset/training_set/l/832.png

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inflating: Dataset/training_set/l/834.png

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inflating: Dataset/training_set/l/837.png

inflating: Dataset/training_set/l/838.png

inflating: Dataset/training_set/l/839.png

inflating: Dataset/training_set/l/84.png

inflating: Dataset/training_set/l/840.png

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extracting: Dataset/training_set/l/841.png

Dataset/training_set/l/842.png

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Dataset/training_set/l/844.png

Dataset/training_set/l/845.png

Dataset/training_set/l/846.png

Dataset/training_set/l/847.png
inflating: Dataset/training_set/l/848.png
inflating: Dataset/training_set/l/849.png
inflating: Dataset/training_set/l/85.png
inflating: Dataset/training_set/l/850.png
inflating: Dataset/training_set/l/851.png
inflating: Dataset/training_set/l/852.png
inflating: Dataset/training_set/l/853.png
inflating: Dataset/training_set/l/854.png
extracting: Dataset/training_set/l/855.png
inflating: Dataset/training_set/l/856.png
inflating: Dataset/training_set/l/857.png
inflating: Dataset/training_set/l/858.png
inflating: Dataset/training_set/l/859.png
extracting: Dataset/training_set/l/86.png
inflating: Dataset/training_set/l/860.png
inflating: Dataset/training_set/l/861.png
inflating: Dataset/training_set/l/862.png
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extracting: Dataset/training_set/l/863.png

Dataset/training_set/l/864.png

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

inflating:

Dataset/training_set/l/869.png

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Dataset/training_set/l/87.png

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Dataset/training_set/l/870.png

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Dataset/training_set/l/885.png

extracting:

Dataset/training_set/l/886.png

extracting: Dataset/training_set/l/887.png

Dataset/training_set/l/888.png

Dataset/training_set/l/889.png

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Dataset/training_set/l/89.png

Dataset/training_set/l/890.png

Dataset/training_set/l/891.png

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inflating: Dataset/training_set/l/904.png

extracting: Dataset/training_set/l/905.png

inflating: Dataset/training_set/l/906.png

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Dataset/training_set/l/91.png

Dataset/training_set/l/910.png

extracting: Dataset/training_set/l/911.png

extracting: Dataset/training_set/l/912.png

inflating: Dataset/training_set/l/913.png

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extracting: Dataset/training_set/l/915.png

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Dataset/training_set/l/961.png inflating:

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Dataset/training_set/l/966.png inflating:

Dataset/training_set/l/967.png inflating:

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Dataset/training_set/l/969.png inflating:

Dataset/training_set/l/97.png inflating:

Dataset/training_set/l/970.png inflating:

Dataset/training_set/l/971.png inflating:

Dataset/training_set/l/972.png extracting:

Dataset/training_set/l/973.png inflating:

Dataset/training_set/l/974.png

inflating: Dataset/training_set/l/975.png

Dataset/training_set/l/976.png

Dataset/training_set/l/977.png

Dataset/training_set/l/978.png

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Dataset/training_set/l/980.png

Dataset/training_set/l/981.png

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),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

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'))
```

Compile The Model

```
model.compile(loss='categorical_crossentropy',optimizer='adam',metrics=['accuracy'])
```