

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  
  
train_datagen=ImageDataGenerator(rescale=1./255,shear_range=0.2,zoom_range=0.2,horizontal  
l_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/l/862.png
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inflating: Dataset/training_set/l/865.png
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inflating: 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/905.png
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inflating: 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
inflating: Dataset/training_set/l/914.png
extracting: Dataset/training_set/l/915.png
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inflating: Dataset/training_set/l/979.png

```
inflating: Dataset/training_set/l/98.png
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inflating: Dataset/training_set/l/982.png
extracting: Dataset/training_set/l/983.png
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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'])
```