

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_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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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'])
```