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

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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
```

```python
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 ImageDataGeneratorimport

numpy as np

import matplotlib.pyplot as plt #to view graph in colab itselfimport

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'))
```