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

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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 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

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!unzip '/content/drive/MyDrive/Copy of conversation engine for deaf and dumb.zip'
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Streaming output truncated to the last 5000 lines.
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inflating: Dataset/training_set/I/82.png
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inflating: Dataset/training_set/I/821.png
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inflating: Dataset/training_set/I/822.png

inflating: Dataset/training_set/I/823.png

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inflating: Dataset/training_set/I/825.png

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inflating: Dataset/training_set/I/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

#create model

model=Sequential()

Add The Convolution Layer

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