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

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

```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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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'))

Add Pooling Layer

model.add(MaxPooling2D(pool_size=(2,2)))