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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inflating: Dataset/training_set/H/1029.png
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inflating: Dataset/training_set/H/1051.png
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inflating: Dataset/training_set/H/1057.png

extracting: Dataset/training_set/H/1058.png

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inflating: Dataset/training_set/I/936.png

inflating: Dataset/training_set/I/937.png

inflating: Dataset/training_set/I/938.png

inflating: Dataset/training_set/I/939.png

inflating: Dataset/training_set/I/94.png

inflating: Dataset/training_set/I/940.png

inflating: Dataset/training_set/I/941.png

inflating: Dataset/training_set/I/942.png

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inflating: Dataset/training_set/I/948.png

inflating: Dataset/training_set/I/949.png

inflating: Dataset/training_set/I/95.png

inflating: Dataset/training_set/I/950.png

inflating: Dataset/training_set/I/951.png

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inflating: Dataset/training_set/I/96.png

inflating: Dataset/training_set/I/960.png

inflating: Dataset/training_set/I/961.png

inflating: Dataset/training_set/I/962.png

inflating: Dataset/training_set/I/963.png

inflating: Dataset/training_set/I/964.png

inflating: Dataset/training_set/I/965.png

inflating: Dataset/training_set/I/966.png

inflating: Dataset/training_set/I/967.png

inflating: Dataset/training_set/I/968.png

inflating: Dataset/training_set/I/969.png

inflating: Dataset/training_set/I/97.png

inflating: Dataset/training_set/I/970.png

inflating: Dataset/training_set/I/971.png

inflating: Dataset/training_set/I/972.png

extracting: Dataset/training_set/I/973.png

inflating: Dataset/training_set/I/974.png

inflating: Dataset/training_set/I/975.png

inflating: Dataset/training_set/I/976.png

inflating: Dataset/training_set/I/977.png

inflating: Dataset/training_set/I/978.png

inflating: Dataset/training_set/I/979.png

inflating: Dataset/training_set/I/98.png

inflating: Dataset/training_set/I/980.png

inflating: Dataset/training_set/I/981.png

inflating: Dataset/training_set/I/982.png

extracting: Dataset/training_set/I/983.png

inflating: Dataset/training_set/I/984.png

inflating: Dataset/training_set/I/985.png

inflating: Dataset/training_set/I/986.png

inflating: Dataset/training_set/I/987.png

inflating: Dataset/training_set/I/988.png

inflating: Dataset/training_set/I/989.png

inflating: Dataset/training_set/I/99.png

inflating: Dataset/training_set/I/990.png

inflating: Dataset/training_set/I/991.png

inflating: Dataset/training_set/I/992.png

extracting: Dataset/training_set/I/993.png

inflating: Dataset/training_set/I/994.png

inflating: Dataset/training_set/I/995.png

extracting: Dataset/training_set/I/996.png

inflating: Dataset/training_set/I/997.png

inflating: Dataset/training_set/I/998.png

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

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

```python
model.add(Flatten())
```

Adding The Dense Layers

```python
#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

```python
model.compile(loss='categorical_crossentropy',optimizer='adam',metrics=['accuracy'])
```

Fit The Model

```python
model.fit_generator(x_train,
          steps_per_epoch=len(x_train),
          epochs=10,
          validation_data=x_test,
          validation_steps=len(x_test))
```

/usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:1: UserWarning: `Model.fit_generator` is deprecated and will be removed in a future version. Please use `Model.fit`, which supports generators.

  """Entry point for launching an IPython kernel.

Epoch 1/10

79/79 [==============================] - 98s 1s/step - loss: 0.4076 - accuracy: 0.8702 - val_loss: 0.1460 - val_accuracy: 0.9551

Epoch 2/10

79/79 [==============================] - 90s 1s/step - loss: 0.0527 - accuracy: 0.9843 - val_loss: 0.1623 - val_accuracy: 0.9631

Epoch 3/10

79/79 [==============================] - 93s 1s/step - loss: 0.0251 - accuracy: 0.9928 - val_loss: 0.1980 - val_accuracy: 0.9689

Epoch 4/10

79/79 [==============================] - 88s 1s/step - loss: 0.0122 - accuracy: 0.9968 - val_loss: 0.1362 - val_accuracy: 0.9773

Epoch 5/10

79/79 [==============================] - 90s 1s/step - loss: 0.0083 - accuracy: 0.9979 - val_loss: 0.1852 - val_accuracy: 0.9764

Epoch 6/10

79/79 [==============================] - 90s 1s/step - loss: 0.0084 - accuracy: 0.9976 - val_loss: 0.1522 - val_accuracy: 0.9778

Epoch 7/10

79/79 [==============================] - 89s 1s/step - loss: 0.0037 - accuracy: 0.9992 - val_loss: 0.2137 - val_accuracy: 0.9778

Epoch 8/10

79/79 [==============================] - 90s 1s/step - loss: 0.0028 - accuracy: 0.9997 - val_loss: 0.1913 - val_accuracy: 0.9773

Epoch 9/10

79/79 [==============================] - 86s 1s/step - loss: 0.0028 - accuracy: 0.9992 - val_loss: 0.2287 - val_accuracy: 0.9773

Epoch 10/10

79/79 [==============================] - 87s 1s/step - loss: 0.0031 - accuracy: 0.9990 - val_loss: 0.2372 - val_accuracy: 0.9773

Save The Model

model.save('aslpng2.h5')