

Date	6 November 2022
Team ID	PNT2022TMID14463
Project Name	Real-Time Communication System Powered by AI for Specially Abled
Marks	8

MODEL BUILDING

!unzip '/content/drive/MyDrive/IBMPROJECT/conversation engine for deaf and dumb.zip'

Streaming output truncated to the last 5000 lines.

extracting: Dataset/training_set/G/1225.png
extracting: Dataset/training_set/G/1226.png
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inflating: Dataset/training_set/I/849.png
inflating: Dataset/training_set/I/85.png
inflating: Dataset/training_set/I/850.png
inflating: Dataset/training_set/I/851.png
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inflating: Dataset/training_set/I/854.png
extracting: Dataset/training_set/I/855.png
inflating: Dataset/training_set/I/856.png
inflating: Dataset/training_set/I/857.png
inflating: Dataset/training_set/I/858.png
inflating: Dataset/training_set/I/859.png
extracting: Dataset/training_set/I/86.png
inflating: Dataset/training_set/I/860.png
inflating: Dataset/training_set/I/861.png
inflating: Dataset/training_set/I/862.png
extracting: Dataset/training_set/I/863.png
inflating: Dataset/training_set/I/864.png
inflating: Dataset/training_set/I/865.png
inflating: Dataset/training_set/I/866.png
inflating: Dataset/training_set/I/867.png
extracting: Dataset/training_set/I/868.png
inflating: Dataset/training_set/I/869.png
inflating: Dataset/training_set/I/87.png
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inflating: Dataset/training_set/I/885.png
extracting: Dataset/training_set/I/886.png
extracting: Dataset/training_set/I/887.png
inflating: Dataset/training_set/I/888.png
inflating: Dataset/training_set/I/889.png
inflating: Dataset/training_set/I/89.png
inflating: Dataset/training_set/I/890.png
inflating: Dataset/training_set/I/891.png
inflating: Dataset/training_set/I/892.png
inflating: Dataset/training_set/I/893.png
inflating: Dataset/training_set/I/894.png
inflating: Dataset/training_set/I/895.png
inflating: Dataset/training_set/I/896.png

[illegible]

[illegible]

TRAIN AND TEST THE DATA

```
from keras.preprocessing.image import ImageDataGenerator
train_datagen=ImageDataGenerator(rescale = 1./255, shear_range=0.2, zoom_range=0.2,horizontal_flip=True)
test_datagen = ImageDataGenerator(rescale=1./255)
```

```
x_train = train_datagen.flow_from_directory("/content/Dataset/training_set",
target_size=(64,64),batch_size=300,
class_mode='categorical', color_mode ="grayscale")
```

Found 15750 images belonging to 9 classes.

```
x_test = test_datagen.flow_from_directory("/content/Dataset/test_set", target_size=(64,64),batch_size=300,
class_mode='categorical', color_mode ="grayscale")
```

Found 2250 images belonging to 9 classes.

MODEL BUILDING

```
from keras.models import Sequential
from keras.layers import Dense
from keras.layers import Convolution2D
from tensorflow.keras.layers import Conv2D, MaxPooling2D
from keras.layers import Dropout
from keras.layers import Flatten
```

```
model=Sequential()
```

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

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

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

```
model.add(Dense( units=512, activation='relu'))
```

```
model.add(Dense(units=9, activation='softmax'))
```

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

```
model.fit_generator(x_train, steps_per_epoch=24, epochs=10, validation_data=x_test,validation_steps=40)
```

/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

24/24 [=====] - 17s 666ms/step - loss: 1.9786 - accuracy: 0.5628

Epoch 2/10

24/24 [=====] - 16s 662ms/step - loss: 1.4525 - accuracy: 0.6621

Epoch 3/10

24/24 [=====] - 16s 676ms/step - loss: 0.9580 - accuracy: 0.6842

Epoch 4/10
24/24 [=====] - 16s 675ms/step - loss: 0.7076 - accuracy: 0.7240
Epoch 5/10
24/24 [=====] - 16s 659ms/step - loss: 0.6103 - accuracy: 0.7488
Epoch 6/10
24/24 [=====] - 16s 663ms/step - loss: 0.5005 - accuracy: 0.8054
Epoch 7/10
24/24 [=====] - 17s 679ms/step - loss: 0.4164 - accuracy: 0.8904
Epoch 8/10
24/24 [=====] - 18s 723ms/step - loss: 0.3408 - accuracy: 0.8994
Epoch 9/10
24/24 [=====] - 16s 659ms/step - loss: 0.2641 - accuracy: 0.9536
Epoch 10/10
24/24 [=====] - 16s 664ms/step - loss: 0.1676 - accuracy: 0.9672

model.save('RSL.h5')