

**Team Id: PNT2022TMID00737**

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

### Model Building

Import The Required Model Building Libraries

In []:

```
#import imagedatagenerator from  
keras.preprocessing.image import ImageDataGenerator
```

In []:

```
#training datagen  
train_datagen=ImageDataGenerator(rescale=1./255, shear_range=0.2, zoom_range=0  
.2, horizontal_flip=True)
```

In []:

```
#testing datagen  
test_datagen=ImageDataGenerator(rescale=1./255) IMPORTING
```

tensorflow

In []:

```
import tensorflow as tf import  
os
```

**Initialize The Model**

In []:

```
#create model  
from keras.models import Sequential  
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
```

In []:

```
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

In []:

```
!unzip '/content/conversation engine for deaf and dumb (1).zip'  
Streaming output truncated to the last 5000 lines.  
extracting: Dataset/training_set/G/1225.png
```

extracting: Dataset/training\_set/G/1226.png  
extracting: Dataset/training\_set/G/1227.png  
extracting: Dataset/training\_set/G/1228.png  
extracting: Dataset/training\_set/G/1229.png  
inflating: Dataset/training\_set/G/123.png      extracting:  
Dataset/training\_set/G/1230.png      extracting:  
Dataset/training\_set/G/1231.png      extracting:  
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Dataset/training_set/H/1002.png	inflating:
Dataset/training_set/H/1003.png	inflating:
Dataset/training_set/H/1004.png	inflating:
Dataset/training_set/H/1005.png	inflating:
Dataset/training_set/H/1006.png	inflating:

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[illegible]



Dataset/training_set/H/1100.png	inflating:
Dataset/training_set/H/1101.png	inflating:
Dataset/training_set/H/1102.png	inflating:
Dataset/training_set/H/1103.png	inflating:
Dataset/training_set/H/1104.png	inflating:
Dataset/training_set/H/1105.png	inflating:
Dataset/training_set/H/1106.png	inflating:
Dataset/training_set/H/1107.png	inflating:
Dataset/training_set/H/1108.png	inflating:
Dataset/training_set/H/1109.png	inflating:
Dataset/training_set/H/111.png	inflating:
Dataset/training_set/H/1110.png	inflating:
Dataset/training_set/H/1111.png	inflating:
Dataset/training_set/H/1112.png	inflating:
Dataset/training_set/H/1113.png	inflating:
Dataset/training_set/H/1114.png	inflating:
Dataset/training_set/H/1115.png	inflating:
Dataset/training_set/H/1116.png	inflating:
Dataset/training_set/H/1117.png	inflating:
Dataset/training_set/H/1118.png	inflating:
Dataset/training_set/H/1119.png	inflating:
Dataset/training_set/H/112.png	inflating:
Dataset/training_set/H/1120.png	inflating:
Dataset/training_set/H/1121.png	extracting:
Dataset/training_set/H/1122.png	inflating:
Dataset/training_set/H/1123.png	inflating:
Dataset/training_set/H/1124.png	inflating:
Dataset/training_set/H/1125.png	extracting:
Dataset/training_set/H/1126.png	inflating:
Dataset/training_set/H/1127.png	extracting:
Dataset/training_set/H/1128.png	inflating:
Dataset/training_set/H/1129.png	inflating:
Dataset/training_set/H/113.png	inflating:
Dataset/training_set/H/1130.png	inflating:
Dataset/training_set/H/1131.png	inflating:
Dataset/training_set/H/1132.png	inflating:
Dataset/training_set/H/1133.png	inflating:
Dataset/training_set/H/1134.png	inflating:
Dataset/training_set/H/1135.png	inflating:
Dataset/training_set/H/1136.png	inflating:
Dataset/training_set/H/1137.png	inflating:
Dataset/training_set/H/1138.png	inflating:
Dataset/training_set/H/1139.png	inflating:
Dataset/training_set/H/114.png	inflating:
Dataset/training_set/H/1140.png	extracting:
Dataset/training_set/H/1141.png	inflating:
Dataset/training_set/H/1142.png	extracting:
Dataset/training_set/H/1143.png	extracting:
Dataset/training_set/H/1144.png	inflating:
Dataset/training_set/H/1145.png	inflating:
Dataset/training_set/H/1146.png	inflating:
Dataset/training_set/H/1147.png	inflating:

Dataset/training_set/H/1148.png	inflating:
Dataset/training_set/H/1149.png	inflating:
Dataset/training_set/H/115.png	inflating:
Dataset/training_set/H/1150.png	inflating:
Dataset/training_set/H/1151.png	inflating:
Dataset/training_set/H/1152.png	inflating:
Dataset/training_set/H/1153.png	inflating:
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Dataset/training_set/H/1167.png	inflating:
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Dataset/training_set/H/1169.png	inflating:
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Dataset/training_set/H/1172.png	inflating:
Dataset/training_set/H/1173.png	inflating:
Dataset/training_set/H/1174.png	inflating:
Dataset/training_set/H/1175.png	inflating:
Dataset/training_set/H/1176.png	inflating:
Dataset/training_set/H/1177.png	inflating:
Dataset/training_set/H/1178.png	inflating:
Dataset/training_set/H/1179.png	inflating:
Dataset/training_set/H/118.png	inflating:
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Dataset/training_set/H/1185.png	inflating:
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Dataset/training_set/H/1189.png	inflating:
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Dataset/training_set/H/1191.png	extracting:
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Dataset/training_set/H/1193.png	inflating:
Dataset/training_set/H/1194.png	inflating:

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Dataset/training_set/H/120.png	extracting:
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Dataset/training_set/H/1202.png	extracting:
Dataset/training_set/H/1203.png	extracting:
Dataset/training_set/H/1204.png	inflating:
Dataset/training_set/H/1205.png	inflating:
Dataset/training_set/H/1206.png	extracting:
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Dataset/training_set/H/1213.png	inflating:
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Dataset/training_set/H/1237.png	inflating:
Dataset/training_set/H/1238.png	inflating:
Dataset/training_set/H/1239.png	inflating:
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Dataset/training_set/H/1240.png	inflating:

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Dataset/training_set/H/1289.png	inflating:
Dataset/training_set/H/129.png	inflating:
Dataset/training_set/H/1290.png	inflating:
Dataset/training_set/H/1291.png	inflating:
Dataset/training_set/H/1292.png	inflating:
Dataset/training_set/H/1293.png	inflating:
Dataset/training_set/H/1294.png	inflating:
Dataset/training_set/H/1295.png	inflating:
Dataset/training_set/H/1296.png	inflating:
Dataset/training_set/H/1297.png	inflating:
Dataset/training_set/H/1298.png	inflating:
Dataset/training_set/H/1299.png	inflating:
Dataset/training_set/H/13.png	inflating:
Dataset/training_set/H/130.png	inflating:
Dataset/training_set/H/1300.png	inflating:
Dataset/training_set/H/1301.png	inflating:
Dataset/training_set/H/1302.png	inflating:
Dataset/training_set/H/1303.png	inflating:
Dataset/training_set/H/1304.png	inflating:
Dataset/training_set/H/1305.png	inflating:
Dataset/training_set/H/1306.png	inflating:
Dataset/training_set/H/1307.png	inflating:
Dataset/training_set/H/1308.png	inflating:
Dataset/training_set/H/1309.png	inflating:
Dataset/training_set/H/131.png	inflating:
Dataset/training_set/H/1310.png	inflating:
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Dataset/training_set/H/1312.png	inflating:
Dataset/training_set/H/1313.png	inflating:
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Dataset/training_set/H/1315.png	inflating:
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Dataset/training_set/H/1317.png	extracting:
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Dataset/training_set/H/1319.png	inflating:
Dataset/training_set/H/132.png	extracting:
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Dataset/training_set/H/1334.png	inflating:

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Dataset/training_set/H/136.png	inflating:
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Dataset/training_set/H/1371.png	inflating:
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Dataset/training_set/H/1374.png	inflating:
Dataset/training_set/H/1375.png	inflating:
Dataset/training_set/H/1376.png	extracting:
Dataset/training_set/H/1377.png	inflating:
Dataset/training_set/H/1378.png	extracting:
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Dataset/training_set/H/138.png	inflating:
Dataset/training_set/H/1380.png	inflating:
Dataset/training_set/H/1381.png	extracting:

Dataset/training_set/H/1382.png	inflating:
Dataset/training_set/H/1383.png	extracting:
Dataset/training_set/H/1384.png	inflating:
Dataset/training_set/H/1385.png	inflating:
Dataset/training_set/H/1386.png	inflating:
Dataset/training_set/H/1387.png	inflating:
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Dataset/training_set/H/1389.png	inflating:
Dataset/training_set/H/139.png	inflating:
Dataset/training_set/H/1390.png	inflating:
Dataset/training_set/H/1391.png	inflating:
Dataset/training_set/H/1392.png	inflating:
Dataset/training_set/H/1393.png	extracting:
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Dataset/training_set/H/1398.png	inflating:
Dataset/training_set/H/1399.png	inflating:
Dataset/training_set/H/14.png	inflating:
Dataset/training_set/H/140.png	extracting:
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Dataset/training_set/H/1401.png	inflating:
Dataset/training_set/H/1402.png	inflating:
Dataset/training_set/H/1403.png	extracting:
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Dataset/training_set/H/1405.png	inflating:
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Dataset/training_set/H/1407.png	inflating:
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Dataset/training_set/H/1409.png	inflating:
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Dataset/training_set/H/1412.png	inflating:
Dataset/training_set/H/1413.png	inflating:
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Dataset/training_set/H/1422.png	inflating:
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Dataset/training_set/H/1424.png	inflating:
Dataset/training_set/H/1425.png	inflating:
Dataset/training_set/H/1426.png	inflating:
Dataset/training_set/H/1427.png	inflating:
Dataset/training_set/H/1428.png	inflating:

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Dataset/training_set/H/1476.png	inflating:
Dataset/training_set/H/1477.png	extracting:
Dataset/training_set/H/1478.png	inflating:
Dataset/training_set/H/1479.png	inflating:
Dataset/training_set/H/148.png	inflating:
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Dataset/training_set/H/1507.png	inflating:
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Dataset/training_set/H/1509.png	inflating:
Dataset/training_set/H/151.png	inflating:
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Dataset/training_set/H/1513.png	extracting:
Dataset/training_set/H/1514.png	inflating:
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Dataset/training_set/H/1516.png	inflating:
Dataset/training_set/H/1517.png	inflating:
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Dataset/training_set/H/152.png	inflating:
Dataset/training_set/H/1520.png	inflating:
Dataset/training_set/H/1521.png	inflating:

Dataset/training_set/H/1522.png	extracting:
Dataset/training_set/H/1523.png	inflating:
Dataset/training_set/H/1524.png	inflating:
Dataset/training_set/H/1525.png	inflating:
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Dataset/training_set/H/1538.png	extracting:
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Dataset/training_set/H/154.png	inflating:
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Dataset/training_set/H/1548.png	inflating:
Dataset/training_set/H/1549.png	inflating:
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Dataset/training_set/H/1565.png	extracting:
Dataset/training_set/H/1566.png	extracting:
Dataset/training_set/H/1567.png	inflating:
Dataset/training_set/H/1568.png	inflating:
Dataset/training_set/H/1569.png	inflating:

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Dataset/training\_set/H/321.png inflating:  
Dataset/training\_set/H/322.png inflating:  
Dataset/training\_set/H/323.png inflating:  
Dataset/training\_set/H/324.png inflating:  
Dataset/training\_set/H/325.png inflating:  
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Dataset/training\_set/H/361.png extracting:  
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Dataset/training\_set/H/363.png extracting:  
Dataset/training\_set/H/364.png inflating:  
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Dataset/training_set/I/1146.png	inflating:
Dataset/training_set/I/1147.png	inflating:
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Dataset/training_set/I/1162.png	inflating:

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Dataset/training_set/I/1531.png	inflating:
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Dataset/training_set/I/1533.png	inflating:
Dataset/training_set/I/1534.png	inflating:
Dataset/training_set/I/1535.png	inflating:
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Dataset/training_set/I/1537.png	inflating:

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Dataset/training_set/I/1542.png	extracting:
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Dataset/training_set/I/195.png	inflating:
Dataset/training_set/I/196.png	inflating:



[illegible]

[illegible]

[illegible]

[illegible]

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Dataset/training_set/I/569.png	inflating:
Dataset/training_set/I/57.png	inflating:
Dataset/training_set/I/570.png	inflating:



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Dataset/training_set/I/615.png	inflating:
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Dataset/training_set/I/617.png	inflating:

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Dataset/training_set/I/665.png	inflating:
Dataset/training_set/I/666.png	inflating:
Dataset/training_set/I/667.png	inflating:
Dataset/training_set/I/668.png	inflating:
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Dataset/training_set/I/690.png	inflating:
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Dataset/training_set/I/802.png	inflating:
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Dataset/training_set/I/804.png	inflating:

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Dataset/training_set/I/852.png	inflating:
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Dataset/training_set/I/855.png	inflating:
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Dataset/training_set/I/883.png	inflating:
Dataset/training_set/I/884.png	inflating:
Dataset/training_set/I/885.png	extracting:
Dataset/training_set/I/886.png	extracting:
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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:
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Dataset/training_set/I/893.png	inflating:
Dataset/training_set/I/894.png	inflating:
Dataset/training_set/I/895.png	inflating:
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Dataset/training_set/I/899.png	inflating:

Dataset/training_set/I/9.png	inflating:
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Dataset/training_set/I/900.png	inflating:
Dataset/training_set/I/901.png	inflating:
Dataset/training_set/I/902.png	inflating:
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Dataset/training_set/I/904.png	extracting:
Dataset/training_set/I/905.png	inflating:
Dataset/training_set/I/906.png	inflating:
Dataset/training_set/I/907.png	inflating:
Dataset/training_set/I/908.png	inflating:
Dataset/training_set/I/909.png	inflating:
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Dataset/training_set/I/910.png	extracting:
Dataset/training_set/I/911.png	extracting:
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Dataset/training_set/I/942.png	inflating:
Dataset/training_set/I/943.png	inflating:
Dataset/training_set/I/944.png	inflating:
Dataset/training_set/I/945.png	inflating:



[illegible]

```
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

```
In []:
```

```
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

```
In []:
```

```
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.

```
In []:
```

```
a=len(x_train) b=len(x_test)
```

#### Length of training set

```
In []:
```

```
print(a)
```

79

#### Length of test set

```
In []:
```

```
print(b)
```

12

#### Add Layers

```
In []:
```

```
#create model model=Sequential()
```

#### Add The Convolution Layer

```
In []:
```

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

#### Add Pooling Layer

```
In []:
```

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

## Add The Flatten Layer

In [ ]:

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

## The Dense Layers

In [ ]:

```
#1st hidden layer model.add(Dense(units=512,activation='relu'))
#2nd hidden layer
model.add(Dense(units=261,activation='relu'))
```

In [ ]:

```
#output layer
model.add(Dense(units=9,activation='softmax')) Compile
```

## The Model

In [ ]:

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

## Fit The Model

In [ ]:

```
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 [=====] - 90s 1s/step - loss: 0.3965 - accuracy: 0.8746 - val_loss: 0.2797 - val_accuracy: 0.9529 Epoch 2/10
79/79 [=====] - 86s 1s/step - loss: 0.0419 - accuracy: 0.9884 - val_loss: 0.2846 - val_accuracy: 0.9751
Epoch 3/10 79/79 [=====] - 84s 1s/step - loss: 0.0195 - accuracy: 0.9947 - val_loss: 0.3436 - val_accuracy: 0.9751
Epoch 4/10 79/79 [=====] - 87s 1s/step - loss: 0.0083 - accuracy: 0.9982 - val_loss: 0.3722 - val_accuracy: 0.9751
Epoch 5/10 79/79 [=====] - 83s 1s/step - loss: 0.0066 - accuracy: 0.9983 - val_loss: 0.4095 - val_accuracy: 0.9756
Epoch 6/10
79/79 [=====] - 88s 1s/step - loss: 0.0072 - accuracy: 0.9979 - val_loss: 0.3874 - val_accuracy: 0.9756
Epoch 7/10 79/79 [=====] - 86s 1s/step - loss: 0.0059 - accuracy: 0.9985 - val_loss: 0.3891 - val_accuracy: 0.9747
Epoch 8/10 79/79 [=====] - 86s 1s/step - loss: 0.0027 - accuracy: 0.9992 - val_loss: 0.4429 - val_accuracy: 0.9756
Epoch 9/10 79/79 [=====] - 84s 1s/step - loss: 0.0073 - accuracy: 0.9981 - val_loss: 0.4907 - val_accuracy: 0.9756
Epoch 10/10
```

```
79/79 [=====] - 85s 1s/step - loss: 0.0048 - accuracy: 0.9987 - val_loss: 0.4866 - val_accuracy: 0.9702
```

Out[ ]: Save

The Model

In [ ]:

```
model.save('aslpng2.h5')
```

Import The Packages And Load The Saved Model

In [38]:

```
from tensorflow.keras.models import load_model
import numpy as np import cv2
from tensorflow.keras.preprocessing import image
```

In [45]:

```
#load the model
model=load_model('aslpng2.h5')
```

In [46]:

```
img=image.load_img('/content/Dataset/test_set/A/10.png',target_size=(400,500))
img
```

Out[46]:



