

**Team Id:** PNT2022TMID46656

## 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  
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Dataset/training_set/H/1006.png	inflating:

[illegible]

[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:
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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/1194.png	inflating:

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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:
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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/1240.png	inflating:

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Dataset/training_set/H/1289.png	inflating:
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Dataset/training_set/H/1292.png	inflating:
Dataset/training_set/H/1293.png	inflating:
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Dataset/training_set/H/1301.png	inflating:
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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:
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Dataset/training_set/H/1378.png	extracting:
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Dataset/training_set/H/1381.png	extracting:

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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:
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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/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/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:
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Dataset/training_set/H/1517.png	inflating:
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Dataset/training_set/H/1520.png	inflating:
Dataset/training_set/H/1521.png	inflating:

Dataset/training_set/H/1522.png	extracting:
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Dataset/training_set/H/1566.png	extracting:
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Dataset/training_set/H/1568.png	inflating:
Dataset/training_set/H/1569.png	inflating:

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[illegible]

[illegible]



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Dataset/training_set/H/321.png	inflating:
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Dataset/training_set/H/324.png	inflating:
Dataset/training_set/H/325.png	inflating:
Dataset/training_set/H/326.png	inflating:
Dataset/training_set/H/327.png	inflating:
Dataset/training_set/H/328.png	inflating:
Dataset/training_set/H/329.png	inflating:
Dataset/training_set/H/33.png	inflating:
Dataset/training_set/H/330.png	inflating:
Dataset/training_set/H/331.png	inflating:
Dataset/training_set/H/332.png	inflating:
Dataset/training_set/H/333.png	inflating:
Dataset/training_set/H/334.png	inflating:
Dataset/training_set/H/335.png	inflating:
Dataset/training_set/H/336.png	inflating:
Dataset/training_set/H/337.png	inflating:
Dataset/training_set/H/338.png	inflating:
Dataset/training_set/H/339.png	inflating:
Dataset/training_set/H/34.png	inflating:
Dataset/training_set/H/340.png	inflating:
Dataset/training_set/H/341.png	inflating:
Dataset/training_set/H/342.png	inflating:
Dataset/training_set/H/343.png	inflating:
Dataset/training_set/H/344.png	inflating:
Dataset/training_set/H/345.png	inflating:
Dataset/training_set/H/346.png	inflating:
Dataset/training_set/H/347.png	inflating:
Dataset/training_set/H/348.png	inflating:
Dataset/training_set/H/349.png	inflating:
Dataset/training_set/H/35.png	inflating:
Dataset/training_set/H/350.png	inflating:
Dataset/training_set/H/351.png	inflating:
Dataset/training_set/H/352.png	extracting:
Dataset/training_set/H/353.png	inflating:
Dataset/training_set/H/354.png	inflating:
Dataset/training_set/H/355.png	inflating:
Dataset/training_set/H/356.png	extracting:
Dataset/training_set/H/357.png	inflating:
Dataset/training_set/H/358.png	inflating:
Dataset/training_set/H/359.png	inflating:
Dataset/training_set/H/36.png	inflating:
Dataset/training_set/H/360.png	inflating:
Dataset/training_set/H/361.png	extracting:
Dataset/training_set/H/362.png	inflating:
Dataset/training_set/H/363.png	extracting:
Dataset/training_set/H/364.png	inflating:
Dataset/training_set/H/365.png	inflating:
Dataset/training_set/H/366.png	inflating:
Dataset/training_set/H/367.png	inflating:
Dataset/training_set/H/368.png	inflating:

[illegible]

Dataset/training\_set/H/415.png inflating:  
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Dataset/training\_set/H/417.png inflating:  
Dataset/training\_set/H/418.png  
    inflating: Dataset/training\_set/H/419.png  
inflating: Dataset/training\_set/H/42.png  
inflating: Dataset/training\_set/H/420.png  
inflating: Dataset/training\_set/H/421.png  
inflating: Dataset/training\_set/H/422.png  
inflating: Dataset/training\_set/H/423.png  
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inflating: Dataset/training\_set/H/427.png  
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inflating: Dataset/training\_set/H/43.png  
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inflating: Dataset/training\_set/H/431.png  
inflating: Dataset/training\_set/H/432.png  
inflating: Dataset/training\_set/H/433.png  
inflating: Dataset/training\_set/H/434.png  
extracting: Dataset/training\_set/H/435.png  
inflating: Dataset/training\_set/H/436.png  
inflating: Dataset/training\_set/H/437.png  
inflating: Dataset/training\_set/H/438.png  
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inflating: Dataset/training\_set/H/450.png  
inflating: Dataset/training\_set/H/451.png  
extracting: Dataset/training\_set/H/452.png inflating:  
Dataset/training\_set/H/453.png inflating:  
Dataset/training\_set/H/454.png inflating:  
Dataset/training\_set/H/455.png inflating:  
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Dataset/training\_set/H/457.png inflating:  
Dataset/training\_set/H/458.png inflating:  
Dataset/training\_set/H/459.png inflating:  
Dataset/training\_set/H/46.png inflating:  
Dataset/training\_set/H/460.png inflating:  
Dataset/training\_set/H/461.png inflating:

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[illegible]

Dataset/training_set/H/556.png	inflating:
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Dataset/training_set/H/559.png	inflating:
Dataset/training_set/H/56.png	inflating:
Dataset/training_set/H/560.png	extracting:
Dataset/training_set/H/561.png	inflating:
Dataset/training_set/H/562.png	inflating:
Dataset/training_set/H/563.png	inflating:
Dataset/training_set/H/564.png	inflating:
Dataset/training_set/H/565.png	inflating:
Dataset/training_set/H/566.png	inflating:
Dataset/training_set/H/567.png	inflating:
Dataset/training_set/H/568.png	inflating:
Dataset/training_set/H/569.png	inflating:
Dataset/training_set/H/57.png	inflating:
Dataset/training_set/H/570.png	inflating:
Dataset/training_set/H/571.png	inflating:
Dataset/training_set/H/572.png	inflating:
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Dataset/training_set/H/579.png	inflating:
Dataset/training_set/H/58.png	inflating:
Dataset/training_set/H/580.png	inflating:
Dataset/training_set/H/581.png	inflating:
Dataset/training_set/H/582.png	extracting:
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Dataset/training_set/H/584.png	inflating:
Dataset/training_set/H/585.png	inflating:
Dataset/training_set/H/586.png	inflating:
Dataset/training_set/H/587.png	inflating:
Dataset/training_set/H/588.png	inflating:
Dataset/training_set/H/589.png	inflating:
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Dataset/training_set/H/592.png	inflating:
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Dataset/training_set/H/594.png	inflating:
Dataset/training_set/H/595.png	inflating:
Dataset/training_set/H/596.png	inflating:
Dataset/training_set/H/597.png	inflating:
Dataset/training_set/H/598.png	extracting:
Dataset/training_set/H/599.png	inflating:
Dataset/training_set/H/6.png	inflating:
Dataset/training_set/H/60.png	inflating:
Dataset/training_set/H/600.png	inflating:
Dataset/training_set/H/601.png	inflating:

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Dataset/training_set/H/790.png	inflating:
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Dataset/training_set/H/794.png	inflating:
Dataset/training_set/H/795.png	inflating:
Dataset/training_set/H/796.png	extracting:
Dataset/training_set/H/797.png	inflating:
Dataset/training_set/H/798.png	inflating:
Dataset/training_set/H/799.png	inflating:
Dataset/training_set/H/8.png	inflating:
Dataset/training_set/H/80.png	inflating:
Dataset/training_set/H/800.png	inflating:
Dataset/training_set/H/801.png	inflating:
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Dataset/training_set/H/808.png	inflating:
Dataset/training_set/H/809.png	inflating:
Dataset/training_set/H/81.png	inflating:
Dataset/training_set/H/810.png	inflating:
Dataset/training_set/H/811.png	inflating:
Dataset/training_set/H/812.png	inflating:
Dataset/training_set/H/813.png	inflating:
Dataset/training_set/H/814.png	inflating:
Dataset/training_set/H/815.png	inflating:
Dataset/training_set/H/816.png	extracting:
Dataset/training_set/H/817.png	inflating:
Dataset/training_set/H/818.png	extracting:
Dataset/training_set/H/819.png	inflating:
Dataset/training_set/H/82.png	extracting:
Dataset/training_set/H/820.png	inflating:
Dataset/training_set/H/821.png	inflating:
Dataset/training_set/H/822.png	inflating:
Dataset/training_set/H/823.png	inflating:
Dataset/training_set/H/824.png	inflating:
Dataset/training_set/H/825.png	inflating:
Dataset/training_set/H/826.png	inflating:
Dataset/training_set/H/827.png	extracting:
Dataset/training_set/H/828.png	extracting:
Dataset/training_set/H/829.png	inflating:
Dataset/training_set/H/83.png	inflating:
Dataset/training_set/H/830.png	inflating:
Dataset/training_set/H/831.png	inflating:
Dataset/training_set/H/832.png	inflating:
Dataset/training_set/H/833.png	inflating:
Dataset/training_set/H/834.png	inflating:
Dataset/training_set/H/835.png	extracting:
Dataset/training_set/H/836.png	inflating:

Dataset/training_set/H/837.png	inflating:
Dataset/training_set/H/838.png	inflating:
Dataset/training_set/H/839.png	inflating:
Dataset/training_set/H/84.png	inflating:
Dataset/training_set/H/840.png	inflating:
Dataset/training_set/H/841.png	inflating:
Dataset/training_set/H/842.png	inflating:
Dataset/training_set/H/843.png	inflating:
Dataset/training_set/H/844.png	inflating:
Dataset/training_set/H/845.png	inflating:
Dataset/training_set/H/846.png	extracting:
Dataset/training_set/H/847.png	inflating:
Dataset/training_set/H/848.png	inflating:
Dataset/training_set/H/849.png	inflating:
Dataset/training_set/H/85.png	inflating:
Dataset/training_set/H/850.png	inflating:
Dataset/training_set/H/851.png	extracting:
Dataset/training_set/H/852.png	inflating:
Dataset/training_set/H/853.png	extracting:
Dataset/training_set/H/854.png	inflating:
Dataset/training_set/H/855.png	inflating:
Dataset/training_set/H/856.png	extracting:
Dataset/training_set/H/857.png	inflating:
Dataset/training_set/H/858.png	inflating:
Dataset/training_set/H/859.png	inflating:
Dataset/training_set/H/86.png	inflating:
Dataset/training_set/H/860.png	inflating:
Dataset/training_set/H/861.png	inflating:
Dataset/training_set/H/862.png	inflating:
Dataset/training_set/H/863.png	inflating:
Dataset/training_set/H/864.png	inflating:
Dataset/training_set/H/865.png	inflating:
Dataset/training_set/H/866.png	extracting:
Dataset/training_set/H/867.png	inflating:
Dataset/training_set/H/868.png	inflating:
Dataset/training_set/H/869.png	inflating:
Dataset/training_set/H/87.png	inflating:
Dataset/training_set/H/870.png	inflating:
Dataset/training_set/H/871.png	inflating:
Dataset/training_set/H/872.png	inflating:
Dataset/training_set/H/873.png	inflating:
Dataset/training_set/H/874.png	inflating:
Dataset/training_set/H/875.png	inflating:
Dataset/training_set/H/876.png	inflating:
Dataset/training_set/H/877.png	inflating:
Dataset/training_set/H/878.png	inflating:
Dataset/training_set/H/879.png	inflating:
Dataset/training_set/H/88.png	inflating:
Dataset/training_set/H/880.png	inflating:
Dataset/training_set/H/881.png	inflating:
Dataset/training_set/H/882.png	inflating:
Dataset/training_set/H/883.png	inflating:

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Dataset/training_set/H/978.png	inflating:
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Dataset/training_set/H/98.png	inflating:
Dataset/training_set/H/980.png	inflating:
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Dataset/training_set/H/982.png	inflating:
Dataset/training_set/H/983.png	inflating:
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Dataset/training_set/H/985.png	inflating:
Dataset/training_set/H/986.png	inflating:
Dataset/training_set/H/987.png	inflating:
Dataset/training_set/H/988.png	inflating:
Dataset/training_set/H/989.png	inflating:
Dataset/training_set/H/99.png	inflating:
Dataset/training_set/H/990.png	inflating:
Dataset/training_set/H/991.png	inflating:
Dataset/training_set/H/992.png	inflating:
Dataset/training_set/H/993.png	inflating:
Dataset/training_set/H/994.png	inflating:
Dataset/training_set/H/995.png	inflating:
Dataset/training_set/H/996.png	inflating:
Dataset/training_set/H/997.png	inflating:
Dataset/training_set/H/998.png	inflating:
Dataset/training_set/H/999.png	creating:
Dataset/training_set/I/	inflating:
Dataset/training_set/I/1.png	inflating:
Dataset/training_set/I/10.png	inflating:
Dataset/training_set/I/100.png	inflating:
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Dataset/training_set/I/1009.png	inflating:
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Dataset/training_set/I/1011.png	extracting:
Dataset/training_set/I/1012.png	inflating:
Dataset/training_set/I/1013.png	extracting:
Dataset/training_set/I/1014.png	extracting:
Dataset/training_set/I/1015.png	inflating:
Dataset/training_set/I/1016.png	extracting:
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Dataset/training_set/I/1018.png	inflating:
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Dataset/training_set/I/1021.png	inflating:



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Dataset/training_set/I/1542.png	extracting:
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[illegible]

[illegible]

[illegible]

[illegible]

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Dataset/training_set/I/544.png	inflating:
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Dataset/training_set/I/546.png	inflating:
Dataset/training_set/I/547.png	inflating:
Dataset/training_set/I/548.png	inflating:
Dataset/training_set/I/549.png	inflating:
Dataset/training_set/I/55.png	inflating:
Dataset/training_set/I/550.png	inflating:
Dataset/training_set/I/551.png	inflating:
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Dataset/training_set/I/562.png	inflating:
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Dataset/training_set/I/568.png	inflating:
Dataset/training_set/I/569.png	inflating:
Dataset/training_set/I/57.png	inflating:
Dataset/training_set/I/570.png	inflating:



Dataset/training_set/I/571.png	inflating:
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Dataset/training_set/I/574.png	extracting:
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Dataset/training_set/I/577.png	inflating:
Dataset/training_set/I/578.png	extracting:
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Dataset/training_set/I/58.png	inflating:
Dataset/training_set/I/580.png	inflating:
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Dataset/training_set/I/603.png	inflating:
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Dataset/training_set/I/605.png	inflating:
Dataset/training_set/I/606.png	inflating:
Dataset/training_set/I/607.png	inflating:
Dataset/training_set/I/608.png	inflating:
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Dataset/training_set/I/615.png	inflating:
Dataset/training_set/I/616.png	inflating:
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:
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Dataset/training_set/I/668.png	inflating:
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Dataset/training_set/I/802.png	inflating:
Dataset/training_set/I/803.png	inflating:
Dataset/training_set/I/804.png	inflating:

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Dataset/training_set/I/852.png	inflating:
Dataset/training_set/I/853.png	inflating:
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Dataset/training_set/I/859.png	extracting:
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Dataset/training_set/I/860.png	inflating:
Dataset/training_set/I/861.png	inflating:
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Dataset/training_set/I/864.png	inflating:
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Dataset/training_set/I/867.png	extracting:
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Dataset/training_set/I/87.png	inflating:
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Dataset/training_set/I/872.png	inflating:
Dataset/training_set/I/873.png	inflating:
Dataset/training_set/I/874.png	inflating:
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Dataset/training_set/I/876.png	inflating:
Dataset/training_set/I/877.png	inflating:
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Dataset/training_set/I/881.png	inflating:
Dataset/training_set/I/882.png	inflating:
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:
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:
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Dataset/training_set/I/896.png	inflating:
Dataset/training_set/I/897.png	inflating:
Dataset/training_set/I/898.png	inflating:
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:
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Dataset/training_set/I/905.png	inflating:
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Dataset/training_set/I/908.png	inflating:
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Dataset/training_set/I/91.png	inflating:
Dataset/training_set/I/910.png	extracting:
Dataset/training_set/I/911.png	extracting:
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Dataset/training_set/I/914.png	extracting:
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Dataset/training_set/I/922.png	inflating:
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Dataset/training_set/I/930.png	inflating:
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Dataset/training_set/I/934.png	inflating:
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Dataset/training_set/I/937.png	inflating:
Dataset/training_set/I/938.png	inflating:
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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 -
accurac y: 0.8746 - val_loss: 0.2797 - val_accuracy: 0.9529 Epoch 2/10
79/79 [=====] - 86s 1s/step - loss: 0.0419 -
accurac y: 0.9884 - val_loss: 0.2846 - val_accuracy: 0.9751
Epoch 3/10 79/79 [=====] - 84s 1s/step - loss:
0.0195 - accurac y: 0.9947 - val_loss: 0.3436 - val_accuracy: 0.9751
Epoch 4/10 79/79 [=====] - 87s 1s/step - loss:
0.0083 - accurac y: 0.9982 - val_loss: 0.3722 - val_accuracy: 0.9751
Epoch 5/10 79/79 [=====] - 83s 1s/step - loss:
0.0066 - accurac y: 0.9983 - val_loss: 0.4095 - val_accuracy: 0.9756
Epoch 6/10
79/79 [=====] - 88s 1s/step - loss: 0.0072 -
accurac y: 0.9979 - val_loss: 0.3874 - val_accuracy: 0.9756
Epoch 7/10 79/79 [=====] - 86s 1s/step - loss:
0.0059 - accurac y: 0.9985 - val_loss: 0.3891 - val_accuracy: 0.9747
Epoch 8/10 79/79 [=====] - 86s 1s/step - loss:
0.0027 - accurac y: 0.9992 - val_loss: 0.4429 - val_accuracy: 0.9756
Epoch 9/10 79/79 [=====] - 84s 1s/step - loss:
0.0073 - accurac y: 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]:



## Load The Test Image, Pre-Process It And Predict

In [79]:

```
from skimage.transform import resize def
detect(frame):
    img=resize(frame, (64,64,1))
    img=np.expand_dims(img,axis=0)
    if (np.max(img)>1):
    prediction=model.predict(img)
    print(prediction)
    prediction=model.predict_classes(img)
    print(prediction)
```

In [73]:

```
arr= image.img_to_array(img)
```

In [67]:

```
frame=cv2.imread('/content/Dataset/test_set/A/10.png')
data=detect(frame) from google.colab.patches import
cv2_imshow cv2_imshow(frame) cv2.waitKey(0)
cv2.destroyAllWindows()
```

