

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

Team ID: PNT2022TMID51692

## 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 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
```

```
!unzip '/content/drive/MyDrive/Copy of conversation engine for deaf and dumb.zip'
```

Streaming output truncated to the last 5000 lines.

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inflating: Dataset/training\_set/G/574.png

extracting: Dataset/training\_set/G/575.png

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inflating: Dataset/training\_set/G/58.png

extracting: Dataset/training\_set/G/580.png

inflating:

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Dataset/training\_set/G/587.png inflating:

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Dataset/training\_set/G/589.png inflating:

Dataset/training\_set/G/59.png extracting:

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inflating: Dataset/training\_set/G/982.png

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Dataset/training\_set/G/986.png

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Dataset/training\_set/G/989.png

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inflating: Dataset/training\_set/G/999.png

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Dataset/training\_set/H/1.png inflating:

Dataset/training\_set/H/10.png inflating:

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Dataset/training\_set/H/1001.png

inflating: Dataset/training\_set/H/1002.png

Dataset/training\_set/H/1003.png

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Dataset/training\_set/H/1006.png

Dataset/training\_set/H/1007.png

Dataset/training\_set/H/1008.png

Dataset/training\_set/H/1009.png

Dataset/training\_set/H/101.png

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inflating: Dataset/training\_set/H/1011.png

inflating: Dataset/training\_set/H/1012.png

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inflating: Dataset/training\_set/H/1019.png

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Dataset/training\_set/H/1050.png

Dataset/training\_set/H/1051.png

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Dataset/training\_set/H/1052.png

extracting: Dataset/training\_set/H/1053.png

inflating: Dataset/training\_set/H/1054.png

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inflating: Dataset/training\_set/H/1056.png

inflating: Dataset/training\_set/H/1057.png

extracting: Dataset/training\_set/H/1058.png

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Dataset/training\_set/H/1073.png

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Dataset/training\_set/H/1097.png

extracting:

Dataset/training\_set/H/1098.png

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Dataset/training\_set/H/1111.png

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Dataset/training\_set/H/1112.png

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Dataset/training\_set/H/112.png

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extracting: Dataset/training\_set/H/1122.png

inflating: Dataset/training\_set/H/1123.png

inflating: Dataset/training\_set/H/1124.png

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extracting: Dataset/training\_set/H/1126.png

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extracting: Dataset/training\_set/H/1128.png

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inflating: Dataset/training\_set/H/1140.png  
extracting: Dataset/training\_set/H/1141.png  
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Dataset/training\_set/H/1143.png extracting:  
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inflating: Dataset/training\_set/H/1162.png

Dataset/training\_set/H/1163.png

Dataset/training\_set/H/1164.png

Dataset/training\_set/H/1165.png extracting:

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Dataset/training\_set/H/1188.png

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Dataset/training\_set/H/119.png

Dataset/training\_set/H/1190.png

inflating: Dataset/training\_set/H/1191.png

extracting: Dataset/training\_set/H/1192.png

inflating: Dataset/training\_set/H/1193.png

inflating: Dataset/training\_set/H/1194.png

inflating: Dataset/training\_set/H/1195.png

inflating: Dataset/training\_set/H/1196.png

inflating: Dataset/training\_set/H/1197.png

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extracting: Dataset/training\_set/H/1200.png

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extracting: Dataset/training\_set/H/1203.png

extracting: Dataset/training\_set/H/1204.png

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extracting: Dataset/training\_set/H/1217.png

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inflating: Dataset/training\_set/l/320.png

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Dataset/training\_set/l/350.png

Dataset/training\_set/l/351.png extracting:

Dataset/training\_set/l/352.png extracting:

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extracting: Dataset/training\_set/l/387.png  
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extracting: Dataset/training\_set/l/393.png  
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extracting: Dataset/training\_set/I/40.png

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extracting: Dataset/training\_set/I/403.png

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extracting: Dataset/training\_set/l/429.png

extracting: Dataset/training\_set/l/43.png

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Dataset/training\_set/l/443.png

extracting: Dataset/training\_set/l/444.png

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extracting: Dataset/training\_set/l/455.png

inflating: Dataset/training\_set/l/456.png

extracting: Dataset/training\_set/l/457.png

inflating: Dataset/training\_set/l/458.png

extracting: Dataset/training\_set/l/459.png

inflating: inflating:

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inflating: Dataset/training\_set/l/46.png

extracting: Dataset/training\_set/l/460.png

inflating: Dataset/training\_set/l/461.png

inflating: Dataset/training\_set/l/462.png

inflating: Dataset/training\_set/l/463.png

extracting: Dataset/training\_set/l/464.png

inflating: inflating:

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Dataset/training\_set/l/465.png

Dataset/training\_set/l/466.png

Dataset/training\_set/l/467.png

extracting: Dataset/training\_set/l/468.png

extracting: Dataset/training\_set/l/469.png

inflating: Dataset/training\_set/l/47.png

inflating: Dataset/training\_set/l/470.png

inflating: Dataset/training\_set/l/471.png

inflating: Dataset/training\_set/l/472.png

inflating: Dataset/training\_set/l/473.png

inflating: Dataset/training\_set/l/474.png

inflating: Dataset/training\_set/l/475.png

extracting: Dataset/training\_set/l/476.png

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extracting: Dataset/training\_set/l/479.png

inflating: Dataset/training\_set/l/48.png

inflating: Dataset/training\_set/l/480.png

inflating: Dataset/training\_set/l/481.png

extracting: Dataset/training\_set/l/482.png

inflating: Dataset/training\_set/l/483.png

extracting: Dataset/training\_set/l/484.png

Dataset/training\_set/l/485.png

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Dataset/training\_set/l/486.png

Dataset/training\_set/l/487.png

extracting: Dataset/training\_set/l/488.png

inflating: Dataset/training\_set/l/489.png

extracting: Dataset/training\_set/l/49.png

extracting: Dataset/training\_set/l/490.png

extracting: Dataset/training\_set/l/491.png

extracting: Dataset/training\_set/l/492.png

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extracting: Dataset/training\_set/l/495.png

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inflating: Dataset/training\_set/l/500.png

inflating: Dataset/training\_set/l/501.png

extracting: Dataset/training\_set/l/502.png

inflating: Dataset/training\_set/l/503.png

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Dataset/training\_set/l/512.png

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inflating: Dataset/training\_set/l/522.png

extracting: Dataset/training\_set/l/523.png

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extracting: Dataset/training\_set/l/525.png

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Dataset/training\_set/l/53.png

Dataset/training\_set/l/530.png

Dataset/training\_set/l/531.png

inflating: inflating:

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inflating: inflating:

Dataset/training\_set/I/532.png

Dataset/training\_set/I/533.png

extracting: Dataset/training\_set/I/534.png

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inflating: Dataset/training\_set/I/540.png

extracting: Dataset/training\_set/I/541.png

extracting: Dataset/training\_set/I/542.png

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inflating: Dataset/training\_set/l/572.png

inflating: Dataset/training\_set/l/573.png

extracting: Dataset/training\_set/l/574.png

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Dataset/training\_set/l/578.png

extracting:

Dataset/training\_set/l/579.png

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Dataset/training\_set/l/580.png

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Dataset/training\_set/l/581.png

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Dataset/training\_set/l/584.png

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Dataset/training\_set/I/585.png

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Dataset/training\_set/I/591.png

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Dataset/training\_set/l/595.png

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Dataset/training\_set/l/60.png

extracting: Dataset/training\_set/l/600.png

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extracting: Dataset/training\_set/l/614.png

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Dataset/training\_set/l/619.png

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Dataset/training\_set/l/62.png

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Dataset/training\_set/l/621.png

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inflating: Dataset/training\_set/l/656.png

extracting: Dataset/training\_set/l/657.png

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extracting: Dataset/training\_set/l/658.png

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inflating: Dataset/training\_set/l/663.png

extracting: Dataset/training\_set/l/664.png

Dataset/training\_set/l/665.png

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Dataset/training\_set/l/669.png

Dataset/training\_set/l/67.png

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inflating: Dataset/training\_set/l/677.png

extracting: Dataset/training\_set/l/678.png

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inflating: Dataset/training\_set/l/682.png

extracting: Dataset/training\_set/l/683.png

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Dataset/training\_set/l/69.png

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Dataset/training\_set/I/690.png

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Dataset/training\_set/I/692.png

Dataset/training\_set/I/693.png

extracting: Dataset/training\_set/I/694.png

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extracting: Dataset/training\_set/I/696.png

extracting: Dataset/training\_set/I/697.png

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extracting: Dataset/training\_set/I/7.png

extracting: Dataset/training\_set/I/70.png

extracting: Dataset/training\_set/I/700.png

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inflating: Dataset/training\_set/I/703.png

inflating: Dataset/training\_set/I/704.png

extracting: Dataset/training\_set/I/705.png

inflating: Dataset/training\_set/I/706.png

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inflating: Dataset/training\_set/l/730.png

extracting: Dataset/training\_set/l/731.png

Dataset/training\_set/l/732.png

Dataset/training\_set/l/733.png

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Dataset/training\_set/l/738.png

extracting: Dataset/training\_set/l/739.png

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extracting: Dataset/training\_set/l/740.png

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extracting: Dataset/training\_set/l/747.png

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extracting: Dataset/training\_set/l/765.png

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extracting: Dataset/training\_set/l/794.png

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Dataset/training\_set/l/8.png

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Dataset/training\_set/l/822.png

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inflating: Dataset/training\_set/l/831.png

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inflating: Dataset/training\_set/l/832.png

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inflating: Dataset/training\_set/l/840.png

extracting: Dataset/training\_set/l/841.png

inflating: Dataset/training\_set/l/842.png

inflating: Dataset/training\_set/l/843.png

Dataset/training\_set/l/844.png

Dataset/training\_set/l/845.png

Dataset/training\_set/l/846.png

Dataset/training\_set/l/847.png

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Dataset/training\_set/l/848.png

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extracting: Dataset/training\_set/l/855.png

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inflating: Dataset/training\_set/l/861.png

inflating: Dataset/training\_set/l/862.png

extracting: Dataset/training\_set/l/863.png

inflating: Dataset/training\_set/l/864.png

inflating: Dataset/training\_set/l/865.png

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inflating: Dataset/training\_set/l/866.png

inflating: Dataset/training\_set/l/867.png

extracting: Dataset/training\_set/l/868.png

Dataset/training\_set/l/869.png

Dataset/training\_set/l/87.png

Dataset/training\_set/l/870.png

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Dataset/training\_set/l/872.png

Dataset/training\_set/l/873.png

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inflating: Dataset/training\_set/l/88.png

inflating: Dataset/training\_set/l/880.png

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extracting: Dataset/training\_set/l/886.png

extracting: Dataset/training\_set/l/887.png

inflating: Dataset/training\_set/l/888.png

inflating: Dataset/training\_set/l/889.png

Dataset/training\_set/l/89.png

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Dataset/training\_set/l/896.png

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inflating: Dataset/training\_set/l/899.png

inflating: Dataset/training\_set/l/9.png

inflating: Dataset/training\_set/l/90.png

inflating: Dataset/training\_set/l/900.png

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inflating: Dataset/training\_set/l/902.png

inflating: Dataset/training\_set/l/903.png

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inflating: Dataset/training\_set/l/904.png

extracting: Dataset/training\_set/l/905.png

inflating: Dataset/training\_set/l/906.png

inflating: Dataset/training\_set/l/907.png

inflating: Dataset/training\_set/l/908.png

inflating: Dataset/training\_set/l/909.png

inflating: Dataset/training\_set/l/91.png

inflating: Dataset/training\_set/l/910.png

extracting: Dataset/training\_set/l/911.png

extracting: Dataset/training\_set/l/912.png

Dataset/training\_set/l/913.png

Dataset/training\_set/l/914.png

inflating: inflating:

extracting: Dataset/training\_set/l/915.png

inflating: Dataset/training\_set/l/916.png

inflating: Dataset/training\_set/l/917.png

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inflating: Dataset/training\_set/l/919.png

inflating: Dataset/training\_set/l/92.png

inflating: Dataset/training\_set/l/920.png

inflating: Dataset/training\_set/l/921.png

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Dataset/training\_set/l/935.png

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inflatng: Dataset/training\_set/l/938.png  
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inflatng: Dataset/training\_set/l/940.png  
inflatng: Dataset/training\_set/l/941.png  
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inflatng: Dataset/training\_set/l/95.png  
inflatng: Dataset/training\_set/l/950.png  
inflatng: Dataset/training\_set/l/951.png  
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inflatng: Dataset/training\_set/l/954.png  
inflatng: Dataset/training\_set/l/955.png

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inflating: Dataset/training\_set/l/956.png

Dataset/training\_set/l/957.png

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Dataset/training\_set/l/959.png

Dataset/training\_set/l/96.png

inflating: Dataset/training\_set/l/960.png

inflating: Dataset/training\_set/l/961.png

inflating: Dataset/training\_set/l/962.png

inflating: Dataset/training\_set/l/963.png

inflating: Dataset/training\_set/l/964.png

inflating: Dataset/training\_set/l/965.png

inflating: Dataset/training\_set/l/966.png

inflating: Dataset/training\_set/l/967.png

inflating: Dataset/training\_set/l/968.png

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inflating: Dataset/training\_set/l/97.png

inflating: Dataset/training\_set/l/970.png

inflating: Dataset/training\_set/l/971.png

inflating: Dataset/training\_set/l/972.png

extracting: Dataset/training\_set/l/973.png

inflating: Dataset/training\_set/l/974.png

inflating: Dataset/training\_set/l/975.png

inflating: Dataset/training\_set/l/976.png

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inflating: Dataset/training\_set/l/977.png

inflating: Dataset/training\_set/l/978.png

inflating: Dataset/training\_set/l/979.png

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Dataset/training\_set/l/982.png

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extracting: Dataset/training\_set/l/983.png inflating:

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Dataset/training\_set/l/987.png inflating:

Dataset/training\_set/l/988.png inflating:

Dataset/training\_set/l/989.png inflating:

Dataset/training\_set/l/99.png inflating:

Dataset/training\_set/l/990.png inflating:

Dataset/training\_set/l/991.png inflating:

Dataset/training\_set/l/992.png extracting:

Dataset/training\_set/l/993.png inflating:

Dataset/training\_set/l/994.png inflating:

Dataset/training\_set/l/995.png extracting:

Dataset/training\_set/l/996.png inflating:

Dataset/training\_set/l/997.png inflating:

Dataset/training\_set/l/998.png inflating:

Dataset/training\_set/l/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

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

Adding The Dense Layers

```
#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

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

```
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')