## IBM Project Name: Real-Time Communication System Powered by AI for Specially Abled TEAM ID: PNT2022TMID51692

## Model Building

Import The Required Model Building Libraries

In [1]:

#import imagedatagenerator

from keras.preprocessing.image import ImageDataGenerator

In [2]:

#training datagen

train\_datagen=ImageDataGenerator(rescale=1./255,shear\_range=0.2,zoom\_range=0.2,horizo ntal flip=True) In [3]:

#testing datagen

test\_datagen=ImageDataGenerator(rescale=1./255) IMPORTING

tensorflow

In [4]:

import tensorflow as tf import os Initialize The

Model

In [13]:

#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 [6]:

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 [7]:

!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:

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   inflating: Dataset/training set/G/1611.png
   inflating: Dataset/training set/G/1612.png
   inflating: Dataset/training_set/G/1613.png
   inflating: Dataset/training set/G/1614.png
   inflating: Dataset/training_set/G/1615.png
   inflating: Dataset/training set/G/1616.png
   inflating: Dataset/training set/G/1617.png
   inflating: Dataset/training set/G/1618.png
   inflating: Dataset/training_set/G/1619.png
    inflating: Dataset/training_set/G/162.png
   inflating: Dataset/training_set/G/1620.png
   inflating: Dataset/training set/G/1621.png
   inflating: Dataset/training_set/G/1622.png
   inflating: Dataset/training_set/G/1623.png
   inflating: Dataset/training_set/G/1624.png
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   inflating: Dataset/training set/G/1625.png
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   inflating: Dataset/training set/G/1627.png
   inflating: Dataset/training_set/G/1628.png
   inflating: Dataset/training set/G/1629.png
    inflating: Dataset/training_set/G/163.png
   inflating: Dataset/training set/G/1630.png
   inflating: Dataset/training_set/G/1631.png
   inflating: Dataset/training set/G/1632.png
   inflating: Dataset/training_set/G/1633.png
   inflating: Dataset/training_set/G/1634.png
   inflating: Dataset/training set/G/1635.png
   inflating: Dataset/training set/G/1636.png
   inflating: Dataset/training set/G/1637.png
   inflating: Dataset/training_set/G/1638.png
            Dataset/training set/G/1639.png
         Dataset/training_set/G/164.png
         Dataset/training set/G/1640.png
         Dataset/training set/G/1641.png
         Dataset/training_set/G/1642.png
         Dataset/training_set/G/1643.png
         Dataset/training set/G/1644.png
         Dataset/training set/G/1645.png
         Dataset/training set/G/1646.png Dataset/training set/G/1647.png
         Dataset/training_set/G/1648.png
         Dataset/training set/G/1649.png
         Dataset/training_set/G/165.png
         Dataset/training set/G/1650.png
         Dataset/training set/G/1651.png
         Dataset/training_set/G/1652.png
         Dataset/training_set/G/1653.png
            Dataset/training_set/G/1654.png
   inflating: Dataset/training set/G/1655.png
   inflating: Dataset/training set/G/1656.png
   inflating: Dataset/training_set/G/1657.png
   inflating: Dataset/training set/G/1658.png
   inflating: Dataset/training_set/G/1659.png
    inflating: Dataset/training set/G/166.png
   inflating: Dataset/training set/G/1660.png
   inflating: Dataset/training set/G/1661.png
   inflating: Dataset/training_set/G/1662.png
   inflating: Dataset/training_set/G/1663.png
   inflating: Dataset/training_set/G/1664.png
   inflating: Dataset/training set/G/1665.png
   inflating: Dataset/training_set/G/1666.png
   inflating: Dataset/training_set/G/1667.png
   inflating: Dataset/training_set/G/1668.png
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   inflating: Dataset/training set/G/1669.png
    inflating: Dataset/training set/G/167.png
   inflating: Dataset/training set/G/1670.png
   inflating: Dataset/training_set/G/1671.png
   inflating: Dataset/training set/G/1672.png
   inflating: Dataset/training_set/G/1673.png
   inflating: Dataset/training set/G/1674.png
   inflating: Dataset/training_set/G/1675.png
   inflating: Dataset/training set/G/1676.png
   inflating: Dataset/training_set/G/1677.png
   inflating: Dataset/training_set/G/1678.png
   inflating: Dataset/training set/G/1679.png
    inflating: Dataset/training set/G/168.png
   inflating: Dataset/training set/G/1680.png
   inflating: Dataset/training_set/G/1681.png
   inflating: Dataset/training set/G/1682.png
   inflating: Dataset/training_set/G/1683.png
   inflating: Dataset/training set/G/1684.png
   inflating: Dataset/training set/G/1685.png
   inflating: Dataset/training set/G/1686.png
   inflating: Dataset/training_set/G/1687.png
   inflating: Dataset/training_set/G/1688.png
   inflating: Dataset/training set/G/1689.png
    inflating: Dataset/training set/G/169.png
         Dataset/training set/G/1690.png
         Dataset/training_set/G/1691.png
         Dataset/training_set/G/1692.png
         Dataset/training_set/G/1693.png
         Dataset/training set/G/1694.png
         Dataset/training set/G/1695.png
         Dataset/training set/G/1696.png
         Dataset/training set/G/1697.png
         Dataset/training_set/G/1698.png Dataset/training_set/G/1699.png
         Dataset/training set/G/17.png
         Dataset/training set/G/170.png
         Dataset/training set/G/1700.png
         Dataset/training set/G/1701.png
         Dataset/training_set/G/1702.png
         Dataset/training_set/G/1703.png
         Dataset/training set/G/1704.png
            Dataset/training set/G/1705.png
   inflating: Dataset/training set/G/1706.png
   inflating: Dataset/training_set/G/1707.png
   inflating: Dataset/training set/G/1708.png
   inflating: Dataset/training set/G/1709.png
    inflating: Dataset/training_set/G/171.png
   inflating: Dataset/training set/G/1710.png
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   inflating: Dataset/training set/G/1711.png
   inflating: Dataset/training set/G/1712.png
   inflating: Dataset/training set/G/1713.png
   inflating: Dataset/training_set/G/1714.png
   inflating: Dataset/training set/G/1715.png
   inflating: Dataset/training_set/G/1716.png
   inflating: Dataset/training set/G/1717.png
   inflating: Dataset/training_set/G/1718.png
   inflating: Dataset/training set/G/1719.png
    inflating: Dataset/training_set/G/172.png
   inflating: Dataset/training_set/G/1720.png
   inflating: Dataset/training set/G/1721.png
   inflating: Dataset/training set/G/1722.png
   inflating: Dataset/training set/G/1723.png
   inflating: Dataset/training_set/G/1724.png
   inflating: Dataset/training set/G/1725.png
   inflating: Dataset/training_set/G/1726.png
   inflating: Dataset/training set/G/1727.png
   inflating: Dataset/training set/G/1728.png
   inflating: Dataset/training set/G/1729.png
    inflating: Dataset/training_set/G/173.png
   inflating: Dataset/training set/G/1730.png
   inflating: Dataset/training set/G/1731.png
   inflating: Dataset/training set/G/1732.png
   inflating: Dataset/training set/G/1733.png
   inflating: Dataset/training_set/G/1734.png
   inflating: Dataset/training set/G/1735.png
   inflating: Dataset/training_set/G/1736.png
   inflating: Dataset/training set/G/1737.png
   inflating: Dataset/training set/G/1738.png
   inflating: Dataset/training set/G/1739.png
    inflating: Dataset/training_set/G/174.png
   inflating: Dataset/training_set/G/1740.png
            Dataset/training set/G/1741.png
         Dataset/training set/G/1742.png
         Dataset/training set/G/1743.png
         Dataset/training_set/G/1744.png
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         Dataset/training_set/G/1749.png Dataset/training_set/G/175.png
         Dataset/training_set/G/1750.png
         Dataset/training_set/G/176.png
         Dataset/training_set/G/177.png
         Dataset/training set/G/178.png
         Dataset/training_set/G/179.png
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         Dataset/training set/G/221.png
         Dataset/training set/G/222.png
         Dataset/training set/G/223.png
         Dataset/training_set/G/224.png Dataset/training_set/G/225.png
         Dataset/training set/G/226.png
         Dataset/training set/G/227.png
         Dataset/training set/G/228.png
         Dataset/training set/G/229.png
         Dataset/training set/G/23.png
         Dataset/training set/G/230.png
         Dataset/training set/G/231.png
            Dataset/training set/G/232.png
   inflating: Dataset/training set/G/233.png
   inflating: Dataset/training_set/G/234.png
   inflating: Dataset/training set/G/235.png
   inflating: Dataset/training_set/G/236.png
   inflating: Dataset/training set/G/237.png
   inflating: Dataset/training set/G/238.png
   inflating: Dataset/training set/G/239.png
    inflating: Dataset/training set/G/24.png
   inflating: Dataset/training_set/G/240.png
   inflating: Dataset/training set/G/241.png
   inflating: Dataset/training set/G/242.png
   inflating: Dataset/training set/G/243.png
   inflating: Dataset/training set/G/244.png
   inflating: Dataset/training set/G/245.png
   inflating: Dataset/training_set/G/246.png
   inflating: Dataset/training set/G/247.png
   inflating: Dataset/training set/G/248.png
   inflating: Dataset/training set/G/249.png
    inflating: Dataset/training set/G/25.png
   inflating: Dataset/training_set/G/250.png
   inflating: Dataset/training_set/G/251.png
   inflating: Dataset/training_set/G/252.png
   inflating: Dataset/training set/G/253.png
   inflating: Dataset/training_set/G/254.png
   inflating: Dataset/training set/G/255.png
   inflating: Dataset/training_set/G/256.png
   inflating: Dataset/training set/G/257.png
   inflating: Dataset/training set/G/258.png
   inflating: Dataset/training_set/G/259.png
    inflating: Dataset/training_set/G/26.png
   inflating: Dataset/training_set/G/260.png
   inflating: Dataset/training_set/G/261.png
   inflating: Dataset/training_set/G/262.png
   inflating: Dataset/training set/G/263.png
   inflating: Dataset/training_set/G/264.png
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   inflating: Dataset/training set/G/265.png
   inflating: Dataset/training set/G/266.png
   inflating: Dataset/training set/G/267.png
   inflating: Dataset/training_set/G/268.png
            Dataset/training set/G/269.png
         Dataset/training_set/G/27.png
         Dataset/training set/G/270.png
         Dataset/training set/G/271.png
         Dataset/training_set/G/272.png
         Dataset/training set/G/273.png
         Dataset/training_set/G/274.png
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         Dataset/training set/G/276.png Dataset/training set/G/277.png
         Dataset/training set/G/278.png
         Dataset/training set/G/279.png
         Dataset/training_set/G/28.png
         Dataset/training set/G/280.png
         Dataset/training set/G/281.png
         Dataset/training set/G/282.png
         Dataset/training set/G/283.png
            Dataset/training_set/G/284.png
   inflating: Dataset/training set/G/285.png
   inflating: Dataset/training set/G/286.png
   inflating: Dataset/training_set/G/287.png
   inflating: Dataset/training set/G/288.png
   inflating: Dataset/training_set/G/289.png
    inflating: Dataset/training set/G/29.png
   inflating: Dataset/training set/G/290.png
   inflating: Dataset/training set/G/291.png
   inflating: Dataset/training_set/G/292.png
   inflating: Dataset/training_set/G/293.png
   inflating: Dataset/training_set/G/294.png
   inflating: Dataset/training set/G/295.png
   inflating: Dataset/training set/G/296.png
   inflating: Dataset/training_set/G/297.png
   inflating: Dataset/training set/G/298.png
   inflating: Dataset/training_set/G/299.png
     inflating: Dataset/training set/G/3.png
    inflating: Dataset/training set/G/30.png
   inflating: Dataset/training set/G/300.png
   inflating: Dataset/training_set/G/301.png
   inflating: Dataset/training_set/G/302.png
   inflating: Dataset/training_set/G/303.png
   inflating: Dataset/training set/G/304.png
   inflating: Dataset/training_set/G/305.png
   inflating: Dataset/training_set/G/306.png
   inflating: Dataset/training_set/G/307.png
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   inflating: Dataset/training set/G/308.png
   inflating: Dataset/training set/G/309.png
    inflating: Dataset/training set/G/31.png
   inflating: Dataset/training_set/G/310.png
   inflating: Dataset/training set/G/311.png
   inflating: Dataset/training_set/G/312.png
   inflating: Dataset/training set/G/313.png
   inflating: Dataset/training_set/G/314.png
   inflating: Dataset/training set/G/315.png
   inflating: Dataset/training_set/G/316.png
   inflating: Dataset/training_set/G/317.png
   inflating: Dataset/training set/G/318.png
   inflating: Dataset/training_set/G/319.png
             Dataset/training set/G/32.png
         Dataset/training_set/G/320.png
         Dataset/training set/G/321.png
         Dataset/training_set/G/322.png
         Dataset/training_set/G/323.png
         Dataset/training set/G/324.png
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         Dataset/training set/G/326.png
         Dataset/training_set/G/327.png Dataset/training_set/G/328.png
         Dataset/training_set/G/329.png
         Dataset/training_set/G/33.png
         Dataset/training set/G/330.png
         Dataset/training set/G/331.png
         Dataset/training_set/G/332.png
         Dataset/training_set/G/333.png
         Dataset/training set/G/334.png
            Dataset/training_set/G/335.png
   inflating: Dataset/training_set/G/336.png
   inflating: Dataset/training_set/G/337.png
   inflating: Dataset/training set/G/338.png
   inflating: Dataset/training set/G/339.png
    inflating: Dataset/training set/G/34.png
   inflating: Dataset/training set/G/340.png
   inflating: Dataset/training_set/G/341.png
   inflating: Dataset/training set/G/342.png
   inflating: Dataset/training set/G/343.png
   inflating: Dataset/training set/G/344.png
   inflating: Dataset/training_set/G/345.png
   inflating: Dataset/training_set/G/346.png
   inflating: Dataset/training_set/G/347.png
   inflating: Dataset/training set/G/348.png
   inflating: Dataset/training_set/G/349.png
    inflating: Dataset/training_set/G/35.png
   inflating: Dataset/training_set/G/350.png
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inflating: Dataset/training set/G/351.png inflating: Dataset/training set/G/352.png inflating: Dataset/training set/G/353.png inflating: Dataset/training\_set/G/354.png inflating: Dataset/training\_set/G/355.png inflating: Dataset/training\_set/G/356.png inflating: Dataset/training set/G/357.png inflating: Dataset/training\_set/G/358.png inflating: Dataset/training set/G/359.png inflating: Dataset/training\_set/G/36.png inflating: Dataset/training\_set/G/360.png inflating: Dataset/training set/G/361.png inflating: Dataset/training\_set/G/362.png inflating: Dataset/training set/G/363.png inflating: Dataset/training\_set/G/364.png inflating: Dataset/training set/G/365.png inflating: Dataset/training\_set/G/366.png inflating: Dataset/training set/G/367.png inflating: Dataset/training\_set/G/368.png inflating: Dataset/training set/G/369.png inflating: Dataset/training\_set/G/37.png inflating: Dataset/training set/G/370.png Dataset/training set/G/371.png

> Dataset/training\_set/G/372.png Dataset/training\_set/G/373.png Dataset/training\_set/G/374.png Dataset/training\_set/G/375.png Dataset/training\_set/G/376.png Dataset/training\_set/G/377.png Dataset/training\_set/G/378.png Dataset/training\_set/G/379.png

inflating: inflating: inflating: inflating: inflating: inflating: inflating: inflating: inflating: Dataset/training set/G/38.png Dataset/training\_set/G/380.png Dataset/training set/G/381.png Dataset/training\_set/G/382.png Dataset/training set/G/383.png Dataset/training set/G/384.png Dataset/training\_set/G/385.png Dataset/training\_set/G/386.png Dataset/training set/G/387.png inflating: Dataset/training set/G/388.png inflating: Dataset/training set/G/389.png inflating: Dataset/training\_set/G/39.png inflating: Dataset/training\_set/G/390.png inflating: Dataset/training\_set/G/391.png inflating: Dataset/training set/G/392.png inflating: Dataset/training\_set/G/393.png extracting: Dataset/training set/G/394.png inflating: Dataset/training set/G/395.png inflating: Dataset/training set/G/396.png inflating: Dataset/training set/G/397.png inflating: Dataset/training set/G/398.png inflating: Dataset/training\_set/G/399.png inflating: Dataset/training\_set/G/4.png inflating: Dataset/training\_set/G/40.png inflating: Dataset/training\_set/G/400.png inflating: Dataset/training set/G/401.png inflating: Dataset/training\_set/G/402.png inflating: Dataset/training set/G/403.png inflating: Dataset/training\_set/G/404.png inflating: Dataset/training\_set/G/405.png inflating: Dataset/training\_set/G/406.png extracting: Dataset/training set/G/407.png inflating: Dataset/training set/G/408.png inflating: Dataset/training set/G/409.png inflating: Dataset/training\_set/G/41.png inflating: Dataset/training\_set/G/410.png inflating: Dataset/training set/G/411.png extracting: Dataset/training\_set/G/412.png inflating: Dataset/training set/G/413.png inflating: Dataset/training set/G/414.png inflating: Dataset/training\_set/G/415.png inflating: Dataset/training set/G/416.png extracting: Dataset/training\_set/G/417.png inflating: Dataset/training set/G/418.png inflating: Dataset/training set/G/419.png inflating: Dataset/training set/G/42.png inflating: inflating: inflating: inflating: inflating: inflating:

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inflating:
 inflating: Dataset/training set/G/420.png
 inflating: Dataset/training set/G/421.png
 inflating: Dataset/training set/G/422.png
 inflating: Dataset/training set/G/423.png
extracting: Dataset/training set/G/424.png
           Dataset/training_set/G/425.png
           Dataset/training set/G/426.png
           Dataset/training set/G/427.png
           Dataset/training set/G/428.png
           Dataset/training set/G/429.png
           Dataset/training set/G/43.png
           Dataset/training_set/G/430.png
           Dataset/training set/G/431.png
           Dataset/training set/G/432.png
           Dataset/training set/G/433.png
           Dataset/training_set/G/434.png
           Dataset/training set/G/435.png
           Dataset/training set/G/436.png
           Dataset/training set/G/437.png
           Dataset/training set/G/438.png
inflating: Dataset/training_set/G/439.png
inflating: Dataset/training set/G/44.png
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inflating: Dataset/training_set/G/458.png
inflating: Dataset/training_set/G/459.png
inflating: Dataset/training_set/G/46.png
inflating: Dataset/training_set/G/460.png
inflating: Dataset/training set/G/461.png
inflating: Dataset/training_set/G/462.png
inflating: Dataset/training_set/G/463.png
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inflating: Dataset/training set/G/464.png inflating: Dataset/training set/G/465.png inflating: Dataset/training set/G/466.png extracting: Dataset/training\_set/G/467.png extracting: Dataset/training set/G/468.png inflating: Dataset/training set/G/469.png inflating: Dataset/training set/G/47.png inflating: Dataset/training set/G/470.png inflating: Dataset/training set/G/471.png extracting: Dataset/training set/G/472.png extracting: Dataset/training set/G/473.png extracting: Dataset/training set/G/474.png inflating: Dataset/training set/G/475.png inflating: Dataset/training\_set/G/476.png extracting: Dataset/training\_set/G/477.png inflating: Dataset/training set/G/478.png inflating: Dataset/training\_set/G/479.png inflating: Dataset/training set/G/48.png extracting: Dataset/training set/G/480.png Dataset/training set/G/481.png Dataset/training set/G/482.png extracting: Dataset/training set/G/483.png inflating: Dataset/training set/G/484.png inflating: Dataset/training set/G/485.png inflating: Dataset/training set/G/486.png extracting: Dataset/training set/G/487.png inflating: Dataset/training set/G/488.png inflating: Dataset/training\_set/G/489.png inflating: Dataset/training set/G/49.png inflating: Dataset/training\_set/G/490.png inflating: Dataset/training\_set/G/491.png inflating: Dataset/training\_set/G/492.png inflating: Dataset/training\_set/G/493.png inflating: Dataset/training set/G/494.png inflating: Dataset/training\_set/G/495.png inflating: Dataset/training set/G/496.png inflating: Dataset/training\_set/G/497.png inflating: Dataset/training\_set/G/498.png inflating: Dataset/training\_set/G/499.png inflating: Dataset/training set/G/5.png inflating: Dataset/training\_set/G/50.png inflating: Dataset/training\_set/G/500.png inflating: Dataset/training\_set/G/501.png inflating: Dataset/training\_set/G/502.png

## inflating:

inflating: Dataset/training\_set/G/503.png inflating: Dataset/training set/G/504.png inflating: Dataset/training set/G/505.png inflating: Dataset/training set/G/506.png inflating: Dataset/training set/G/507.png inflating: Dataset/training\_set/G/508.png inflating: Dataset/training set/G/509.png inflating: Dataset/training set/G/51.png inflating: Dataset/training set/G/510.png inflating: Dataset/training\_set/G/511.png inflating: Dataset/training set/G/512.png inflating: Dataset/training\_set/G/513.png inflating: Dataset/training set/G/514.png inflating: Dataset/training\_set/G/515.png inflating: Dataset/training\_set/G/516.png inflating: Dataset/training\_set/G/517.png inflating: Dataset/training\_set/G/518.png inflating: Dataset/training\_set/G/519.png inflating: Dataset/training\_set/G/52.png inflating: Dataset/training set/G/520.png inflating: Dataset/training\_set/G/521.png inflating: Dataset/training\_set/G/522.png inflating: Dataset/training\_set/G/523.png inflating: Dataset/training set/G/524.png Dataset/training\_set/G/525.png

> Dataset/training\_set/G/526.png Dataset/training\_set/G/527.png Dataset/training\_set/G/528.png Dataset/training\_set/G/529.png Dataset/training\_set/G/53.png Dataset/training\_set/G/530.png Dataset/training\_set/G/531.png Dataset/training\_set/G/532.png

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inflating: Dataset/training set/G/579.png
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  inflating: Dataset/training set/G/581.png
extracting: Dataset/training_set/G/582.png
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           Dataset/training set/G/584.png
           Dataset/training set/G/585.png
           extracting:
           Dataset/training_set/G/586.png
           inflating:
           Dataset/training set/G/587.png
           inflating:
           Dataset/training set/G/588.png
           inflating:
           Dataset/training_set/G/589.png
           inflating:
           Dataset/training set/G/59.png
 extracting: Dataset/training set/G/590.png
  inflating: Dataset/training set/G/591.png
  inflating: Dataset/training set/G/592.png
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  inflating: Dataset/training set/G/595.png
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extracting: Dataset/training_set/G/599.png
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inflating: Dataset/training set/G/616.png inflating: Dataset/training set/G/617.png inflating: Dataset/training set/G/618.png inflating: Dataset/training set/G/619.png inflating: Dataset/training set/G/62.png inflating: Dataset/training set/G/620.png inflating: Dataset/training set/G/621.png inflating: Dataset/training set/G/622.png inflating: Dataset/training set/G/623.png inflating: Dataset/training set/G/624.png inflating: Dataset/training set/G/625.png inflating: Dataset/training set/G/626.png inflating: Dataset/training set/G/627.png Dataset/training\_set/G/628.png

> Dataset/training\_set/G/629.png Dataset/training set/G/63.png Dataset/training set/G/630.png Dataset/training set/G/631.png Dataset/training set/G/632.png Dataset/training\_set/G/633.png Dataset/training set/G/634.png Dataset/training\_set/G/635.png Dataset/training\_set/G/636.png Dataset/training\_set/G/637.png Dataset/training\_set/G/638.png Dataset/training set/G/639.png Dataset/training set/G/64.png Dataset/training\_set/G/640.png Dataset/training set/G/641.png Dataset/training\_set/G/642.png

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## inflating:

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> Dataset/training\_set/G/680.png Dataset/training\_set/G/681.png Dataset/training\_set/G/682.png Dataset/training\_set/G/683.png Dataset/training\_set/G/684.png Dataset/training\_set/G/685.png Dataset/training\_set/G/686.png Dataset/training\_set/G/687.png

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Dataset/training\_set/G/885.png

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