```
In [1]:
```

pip install tensorflow

```
Requirement already satisfied: tensorflow in c:\users\reshma_koduri\anaconda3\lib\sit
e-packages (2.16.1)
Requirement already satisfied: tensorflow-intel==2.16.1 in c:\users\reshma koduri\ana
conda3\lib\site-packages (from tensorflow) (2.16.1)
Requirement already satisfied: absl-py>=1.0.0 in c:\users\reshma_koduri\anaconda3\lib
\site-packages (from tensorflow-intel==2.16.1->tensorflow) (2.1.0)
Requirement already satisfied: astunparse>=1.6.0 in c:\users\reshma_koduri\anaconda3
\lib\site-packages (from tensorflow-intel==2.16.1->tensorflow) (1.6.3)
Requirement already satisfied: flatbuffers>=23.5.26 in c:\users\reshma_koduri\anacond
a3\lib\site-packages (from tensorflow-intel==2.16.1->tensorflow) (24.3.25)
Requirement already satisfied: gast!=0.5.0,!=0.5.1,!=0.5.2,>=0.2.1 in c:\users\reshma
_koduri\anaconda3\lib\site-packages (from tensorflow-intel==2.16.1->tensorflow) (0.5.
4)
Requirement already satisfied: google-pasta>=0.1.1 in c:\users\reshma_koduri\anaconda
3\lib\site-packages (from tensorflow-intel==2.16.1->tensorflow) (0.2.0)
Requirement already satisfied: h5py>=3.10.0 in c:\users\reshma_koduri\anaconda3\lib\s
ite-packages (from tensorflow-intel==2.16.1->tensorflow) (3.11.0)
Requirement already satisfied: libclang>=13.0.0 in c:\users\reshma_koduri\anaconda3\l
ib\site-packages (from tensorflow-intel==2.16.1->tensorflow) (18.1.1)
Requirement already satisfied: ml-dtypes~=0.3.1 in c:\users\reshma koduri\anaconda3\l
ib\site-packages (from tensorflow-intel==2.16.1->tensorflow) (0.3.2)
Requirement already satisfied: opt-einsum>=2.3.2 in c:\users\reshma_koduri\anaconda3
\lib\site-packages (from tensorflow-intel==2.16.1->tensorflow) (3.3.0)
Requirement already satisfied: packaging in c:\users\reshma_koduri\anaconda3\lib\site
-packages (from tensorflow-intel==2.16.1->tensorflow) (21.0)
Requirement already satisfied: protobuf!=4.21.0,!=4.21.1,!=4.21.2,!=4.21.3,!=4.21.4,!
=4.21.5,<5.0.0dev,>=3.20.3 in c:\users\reshma_koduri\anaconda3\lib\site-packages (fro
m tensorflow-intel==2.16.1->tensorflow) (3.20.3)
Requirement already satisfied: requests<3,>=2.21.0 in c:\users\reshma koduri\anaconda
3\lib\site-packages (from tensorflow-intel==2.16.1->tensorflow) (2.26.0)
Requirement already satisfied: setuptools in c:\users\reshma_koduri\anaconda3\lib\sit
e-packages (from tensorflow-intel==2.16.1->tensorflow) (69.5.1)
Requirement already satisfied: six>=1.12.0 in c:\users\reshma_koduri\anaconda3\lib\si
te-packages (from tensorflow-intel==2.16.1->tensorflow) (1.16.0)
Requirement already satisfied: termcolor>=1.1.0 in c:\users\reshma_koduri\anaconda3\l
ib\site-packages (from tensorflow-intel==2.16.1->tensorflow) (2.4.0)
Requirement already satisfied: typing-extensions>=3.6.6 in c:\users\reshma koduri\ana
conda3\lib\site-packages (from tensorflow-intel==2.16.1->tensorflow) (4.11.0)
Requirement already satisfied: wrapt>=1.11.0 in c:\users\reshma koduri\anaconda3\lib
\site-packages (from tensorflow-intel==2.16.1->tensorflow) (1.12.1)
Requirement already satisfied: grpcio<2.0,>=1.24.3 in c:\users\reshma_koduri\anaconda
3\lib\site-packages (from tensorflow-intel==2.16.1->tensorflow) (1.63.0)
Requirement already satisfied: tensorboard<2.17,>=2.16 in c:\users\reshma koduri\anac
onda3\lib\site-packages (from tensorflow-intel==2.16.1->tensorflow) (2.16.2)
Requirement already satisfied: keras>=3.0.0 in c:\users\reshma koduri\anaconda3\lib\s
ite-packages (from tensorflow-intel==2.16.1->tensorflow) (3.3.3)
Requirement already satisfied: tensorflow-io-gcs-filesystem>=0.23.1 in c:\users\reshm
a_koduri\anaconda3\lib\site-packages (from tensorflow-intel==2.16.1->tensorflow) (0.3
Requirement already satisfied: numpy<2.0.0,>=1.23.5 in c:\users\reshma_koduri\anacond
a3\lib\site-packages (from tensorflow-intel==2.16.1->tensorflow) (1.26.4)
Requirement already satisfied: wheel<1.0,>=0.23.0 in c:\users\reshma koduri\anaconda3
\lib\site-packages (from astunparse>=1.6.0->tensorflow-intel==2.16.1->tensorflow) (0.
37.0)
Requirement already satisfied: rich in c:\users\reshma koduri\anaconda3\lib\site-pack
ages (from keras>=3.0.0->tensorflow-intel==2.16.1->tensorflow) (13.7.1)
Requirement already satisfied: namex in c:\users\reshma_koduri\anaconda3\lib\site-pac
```

kages (from keras>=3.0.0->tensorflow-intel==2.16.1->tensorflow) (0.0.8)

ckages (from keras>=3.0.0->tensorflow-intel==2.16.1->tensorflow) (0.11.0)

Requirement already satisfied: optree in c:\users\reshma_koduri\anaconda3\lib\site-pa

Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\reshma_koduri\anacon da3\lib\site-packages (from requests<3,>=2.21.0->tensorflow-intel==2.16.1->tensorflo w) (1.26.7)

Requirement already satisfied: certifi>=2017.4.17 in c:\users\reshma_koduri\anaconda3 \lib\site-packages (from requests<3,>=2.21.0->tensorflow-intel==2.16.1->tensorflow) (2021.10.8)

Requirement already satisfied: charset-normalizer~=2.0.0 in c:\users\reshma_koduri\an aconda3\lib\site-packages (from requests<3,>=2.21.0->tensorflow-intel==2.16.1->tensor flow) (2.0.4)

Requirement already satisfied: idna<4,>=2.5 in c:\users\reshma_koduri\anaconda3\lib\s ite-packages (from requests<3,>=2.21.0->tensorflow-intel==2.16.1->tensorflow) (3.2) Requirement already satisfied: markdown>=2.6.8 in c:\users\reshma_koduri\anaconda3\li b\site-packages (from tensorboard<2.17,>=2.16->tensorflow-intel==2.16.1->tensorflow) (3.6)

Requirement already satisfied: tensorboard-data-server<0.8.0,>=0.7.0 in c:\users\resh ma_koduri\anaconda3\lib\site-packages (from tensorboard<2.17,>=2.16->tensorflow-intel ==2.16.1->tensorflow) (0.7.2)

Requirement already satisfied: werkzeug>=1.0.1 in c:\users\reshma_koduri\anaconda3\li b\site-packages (from tensorboard<2.17,>=2.16->tensorflow-intel==2.16.1->tensorflow)

Requirement already satisfied: pyparsing>=2.0.2 in c:\users\reshma_koduri\anaconda3\l ib\site-packages (from packaging->tensorflow-intel==2.16.1->tensorflow) (3.0.4)

Requirement already satisfied: importlib-metadata>=4.4 in c:\users\reshma koduri\anac onda3\lib\site-packages (from markdown>=2.6.8->tensorboard<2.17,>=2.16->tensorflow-in tel==2.16.1->tensorflow) (4.8.1)

Requirement already satisfied: markdown-it-py>=2.2.0 in c:\users\reshma_koduri\anacon da3\lib\site-packages (from rich->keras>=3.0.0->tensorflow-intel==2.16.1->tensorflow) (3.0.0)

Requirement already satisfied: pygments<3.0.0,>=2.13.0 in c:\users\reshma_koduri\anac onda3\lib\site-packages (from rich->keras>=3.0.0->tensorflow-intel==2.16.1->tensorflo w) (2.17.2)

Requirement already satisfied: zipp>=0.5 in c:\users\reshma koduri\anaconda3\lib\site -packages (from importlib-metadata>=4.4->markdown>=2.6.8->tensorboard<2.17,>=2.16->te nsorflow-intel==2.16.1->tensorflow) (3.6.0)

Requirement already satisfied: mdurl~=0.1 in c:\users\reshma koduri\anaconda3\lib\sit e-packages (from markdown-it-py>=2.2.0->rich->keras>=3.0.0->tensorflow-intel==2.16.1->tensorflow) (0.1.2)

Note: you may need to restart the kernel to use updated packages.

DEPRECATION: pyodbc 4.0.0-unsupported has a non-standard version number. pip 24.1 wil l enforce this behaviour change. A possible replacement is to upgrade to a newer vers ion of pyodbc or contact the author to suggest that they release a version with a con forming version number. Discussion can be found at https://github.com/pypa/pip/issue s/12063

```
In [2]:
         import numpy as np
         import pandas as pd
         import matplotlib.pyplot as plt
         import seaborn as sns
         import cv2
         import os
         from sklearn.model selection import train test split
         from tensorflow.keras.models import Sequential
         from tensorflow.keras.layers import Conv2D, MaxPooling2D, Flatten, Dense, Dropout
         from tensorflow.keras.preprocessing.image import ImageDataGenerator
```

```
In [12]:
          for dirname, _, filenames in os.walk(r"C:\Users\reshma_koduri\Downloads\archive (12)
              for filename in filenames:
                  print(os.path.join(dirname, filename))
```

C:\Users\reshma_koduri\Downloads\archive (12)\Covid-19 CTs\Covid\2019-novel-Coronavir us-severe-adult-respiratory-dist 2020 International-Jour-p3-89%1.png

```
us-severe-adult-respiratory-dist_2020_International-Jour-p3-91.png
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7-132.png
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p20-93%0.png
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C:\Users\reshma_koduri\Downloads\archive (12)\Covid-19 CTs\NonCovid\82.png
C:\Users\reshma_koduri\Downloads\archive (12)\Covid-19 CTs\NonCovid\83%0.jpg
C:\Users\reshma_koduri\Downloads\archive (12)\Covid-19 CTs\NonCovid\83%1.jpg
C:\Users\reshma koduri\Downloads\archive (12)\Covid-19 CTs\NonCovid\83%2.jpg
C:\Users\reshma_koduri\Downloads\archive (12)\Covid-19 CTs\NonCovid\83%3.jpg
C:\Users\reshma_koduri\Downloads\archive (12)\Covid-19 CTs\NonCovid\84%0.jpg
C:\Users\reshma koduri\Downloads\archive (12)\Covid-19 CTs\NonCovid\84%1.jpg
C:\Users\reshma_koduri\Downloads\archive (12)\Covid-19 CTs\NonCovid\84%2.jpg
C:\Users\reshma_koduri\Downloads\archive (12)\Covid-19 CTs\NonCovid\84%3.jpg
C:\Users\reshma koduri\Downloads\archive (12)\Covid-19 CTs\NonCovid\848.png
C:\Users\reshma koduri\Downloads\archive (12)\Covid-19 CTs\NonCovid\849.png
C:\Users\reshma koduri\Downloads\archive (12)\Covid-19 CTs\NonCovid\85%0.jpg
C:\Users\reshma_koduri\Downloads\archive (12)\Covid-19 CTs\NonCovid\85%1.jpg
C:\Users\reshma_koduri\Downloads\archive (12)\Covid-19 CTs\NonCovid\86.jpg
C:\Users\reshma koduri\Downloads\archive (12)\Covid-19 CTs\NonCovid\88.jpg
C:\Users\reshma koduri\Downloads\archive (12)\Covid-19 CTs\NonCovid\89%2.jpg
C:\Users\reshma_koduri\Downloads\archive (12)\Covid-19 CTs\NonCovid\89%3.jpg
C:\Users\reshma_koduri\Downloads\archive (12)\Covid-19 CTs\NonCovid\9.jpg
C:\Users\reshma_koduri\Downloads\archive (12)\Covid-19 CTs\NonCovid\90.jpg
C:\Users\reshma koduri\Downloads\archive (12)\Covid-19 CTs\NonCovid\91%0.jpg
C:\Users\reshma koduri\Downloads\archive (12)\Covid-19 CTs\NonCovid\91%1.jpg
```

```
import os

# Path to the dataset
data_dir =(r"C:\Users\reshma_koduri\Downloads\archive (12)\Covid-19 CTs")
categories = ['Covid', 'NonCovid']

# Create Lists to hold data and Labels
data = []
labels = []

for category in categories:
    path = os.path.join(data_dir, category)
    class_num = categories.index(category)
    for img in os.listdir(path):
```

```
try:
    img_array = cv2.imread(os.path.join(path, img), cv2.IMREAD_GRAYSCALE)
    resized_array = cv2.resize(img_array, (224, 224))
    data.append(resized_array)
    labels.append(class_num)
except Exception as e:
    pass
```

```
FileNotFoundError
                                                    Traceback (most recent call last)
         ~\AppData\Local\Temp/ipykernel_19844/517563202.py in <module>
                      path = os.path.join(data_dir, category)
              13
                     class_num = categories.index(category)
          ---> 14
                     for img in os.listdir(path):
              15
                         try:
              16
                              img_array = cv2.imread(os.path.join(path, img), cv2.IMREAD_GRAYSC
         ALE)
         FileNotFoundError: [WinError 3] The system cannot find the path specified: 'C:\\Users
         \\reshma_koduri\\Downloads\\archive (15)\\train\\Covid'
In [14]:
          print(f"Number of images loaded: {len(data)}")
          print(f"Number of labels loaded: {len(labels)}")
         Number of images loaded: 680
         Number of labels loaded: 680
In [15]:
          data = np.array(data).reshape(-1, 224, 224, 1)
          data = data / 255.0
          labels = np.array(labels)
In [28]:
          x_train, x_test, y_train, y_test = train_test_split(data, labels, test_size=0.2, ran
In [29]:
          model = Sequential([
              Conv2D(32, (3, 3), activation='relu', input_shape=(224, 224, 1)),
              MaxPooling2D((2, 2)),
              Conv2D(64, (3, 3), activation='relu'),
              MaxPooling2D((2, 2)),
              Conv2D(128, (3, 3), activation='relu'),
              MaxPooling2D((2, 2)),
              Flatten(),
              Dense(128, activation='relu'),
              Dropout(0.5),
              Dense(2, activation='softmax')
          1)
In [30]:
          model.compile(optimizer='adam', loss='sparse categorical crossentropy', metrics=['ac
In [31]:
          datagen = ImageDataGenerator(
              rotation_range=20,
              zoom range=0.15,
              width shift range=0.2,
              height_shift_range=0.2,
              shear_range=0.15,
              horizontal flip=True,
              fill_mode="nearest"
```

datagen.fit(x_train)

```
In [32]:
         history = model.fit(datagen.flow(x_train, y_train, batch_size=32), epochs=20, valida
        Epoch 1/20
                           16s 702ms/step - accuracy: 0.4709 - loss: 0.8097 - val_acc
        17/17 -----
        uracy: 0.5441 - val loss: 0.6941
        Epoch 2/20
        17/17 -
                               - 12s 681ms/step - accuracy: 0.5269 - loss: 0.6862 - val_acc
        uracy: 0.6250 - val_loss: 0.6840
        Epoch 3/20
        17/17 -
                               - 13s 684ms/step - accuracy: 0.5891 - loss: 0.6688 - val acc
        uracy: 0.6029 - val loss: 0.6630
        Epoch 4/20
                         13s 707ms/step - accuracy: 0.5749 - loss: 0.6774 - val_acc
        17/17 ----
        uracy: 0.5368 - val_loss: 0.7069
        Epoch 5/20
        17/17 -
                            ----- 13s 724ms/step - accuracy: 0.5201 - loss: 0.6883 - val_acc
        uracy: 0.5147 - val_loss: 0.7022
        Epoch 6/20
        17/17 -
                               - 14s 768ms/step - accuracy: 0.5303 - loss: 0.6799 - val acc
        uracy: 0.5588 - val loss: 0.6994
        Epoch 7/20
                               - 14s 751ms/step - accuracy: 0.5668 - loss: 0.6733 - val_acc
        uracy: 0.6544 - val_loss: 0.6693
        Epoch 8/20
                            14s 748ms/step - accuracy: 0.5689 - loss: 0.6702 - val_acc
        17/17 -
        uracy: 0.5588 - val_loss: 0.6948
        Epoch 9/20
        17/17 -
                               - 14s 760ms/step - accuracy: 0.5336 - loss: 0.6847 - val acc
        uracy: 0.6397 - val_loss: 0.6819
        Epoch 10/20
        17/17 -
                               - 14s 726ms/step - accuracy: 0.5587 - loss: 0.6650 - val_acc
        uracy: 0.6838 - val_loss: 0.6529
        Epoch 11/20
        17/17 -
                            uracy: 0.5368 - val loss: 0.6818
        Epoch 12/20
                         14s 752ms/step - accuracy: 0.5878 - loss: 0.6603 - val_acc
        17/17 -
        uracy: 0.6618 - val loss: 0.6413
        Epoch 13/20
                               - 14s 755ms/step - accuracy: 0.6418 - loss: 0.6266 - val acc
        17/17 -
        uracy: 0.6250 - val_loss: 0.6552
        Epoch 14/20
        17/17 -
                          14s 768ms/step - accuracy: 0.6467 - loss: 0.6461 - val_acc
        uracy: 0.6250 - val loss: 0.6413
        Epoch 15/20
                       14s 755ms/step - accuracy: 0.6636 - loss: 0.6434 - val acc
        uracy: 0.6691 - val loss: 0.6418
        Epoch 16/20
        17/17
                             uracy: 0.6912 - val_loss: 0.6411
        Epoch 17/20
        17/17 -
                               - 14s 730ms/step - accuracy: 0.6193 - loss: 0.6461 - val_acc
        uracy: 0.6324 - val loss: 0.6400
        Epoch 18/20
        17/17 -
                          uracy: 0.6912 - val loss: 0.6128
        Epoch 19/20
        17/17 -
                            ---- 14s 761ms/step - accuracy: 0.6791 - loss: 0.6212 - val_acc
        uracy: 0.6618 - val_loss: 0.6566
        Epoch 20/20
```

```
2/3/25, 1:31 PM
                                                    Covid-19 (Medical Image Analysis)
               17/17 -
                                           - 14s 738ms/step - accuracy: 0.6566 - loss: 0.6109 - val_acc
               uracy: 0.6765 - val_loss: 0.6088
     In [33]:
                model.evaluate(x_test, y_test)
                                         - 1s 145ms/step - accuracy: 0.6621 - loss: 0.6168
               [0.6088278889656067, 0.6764705777168274]
     Out[33]:
     In [34]:
                plt.plot(history.history['accuracy'], label='accuracy')
                plt.plot(history.history['val_accuracy'], label = 'val_accuracy')
                plt.xlabel('Epoch')
                plt.ylabel('Accuracy')
                plt.ylim([0, 1])
                plt.legend(loc='lower right')
                plt.show()
                  1.0
                  0.8
                  0.6
                  0.4
                  0.2
                                                              accuracy
                                                              val accuracy
                  0.0
                      0.0
                             2.5
                                   5.0
                                         7.5
                                               10.0
                                                     12.5
                                                           15.0
                                                                 17.5
                                             Epoch
     In [35]:
                model.save('covid19_cnn_model.h5')
```

WARNING:absl:You are saving your model as an HDF5 file via `model.save()` or `keras.s aving.save_model(model)`. This file format is considered legacy. We recommend using i nstead the native Keras format, e.g. `model.save('my_model.keras')` or `keras.saving. save model(model, 'my model.keras')`.

```
In [3]:
         from tensorflow.keras.models import load model
         model = load_model('covid19_cnn_model.h5')
         # Predict on a new image
         new image = cv2.imread(r"C:\Users\reshma koduri\OneDrive\Desktop\2041.png", cv2.IMRE
         new_image = cv2.resize(new_image, (224, 224))
         new_image = np.array(new_image).reshape(-1, 224, 224, 1)
         new_image = new_image / 255.0
         prediction = model.predict(new image)
         print("Prediction:", categories[np.argmax(prediction)])
```

WARNING:absl:Compiled the loaded model, but the compiled metrics have yet to be buil t. `model.compile_metrics` will be empty until you train or evaluate the model. 1/1 0s 172ms/step

```
NameError
                                           Traceback (most recent call last)
```

~\AppData\Local\Temp/ipykernel_9384/3950450575.py in <module>

```
10 prediction = model.predict(new_image)
---> 11 print("Prediction:", categories[np.argmax(prediction)])

NameError: name 'categories' is not defined

In []:
In []:
```