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In [1]: !unzip '/content/drive/My Drive/Covid19Pred/Dataset kaggle.zip'
         !pip install split_folders
        import split folders
        split_folders.ratio('/content/Dataset_kaggle', output="output", seed=1337, ratio
        import pandas as pd
        import numpy as np
        import os
        import tensorflow as tf
        import keras
        import matplotlib.pyplot as plt
        from tensorflow.keras.layers import Dense, GlobalAveragePooling2D
        #from tensorflow.keras.applications.vgg16 import VGG16
        from tensorflow.keras.preprocessing import image
        from tensorflow.keras.applications.vgg16 import preprocess input
        from tensorflow.keras.preprocessing.image import ImageDataGenerator
        from tensorflow.keras.models import Model
        from tensorflow.keras.optimizers import Adam
        from tensorflow.keras.applications import ResNet152
        #from tensorflow.keras.applications.ResNet152 import preprocess input
        image size = [224,224]
        data path = '/content/output'
        resnet = ResNet152(input shape= image size+[3], weights='imagenet', include top=Fal
        x = resnet.output
        x = GlobalAveragePooling2D()(x)
        x = Dense(1024,activation='relu')(x)
        x = Dense(1024,activation='relu')(x)
        x = Dense(512, activation='relu')(x)
        preds = Dense(2,activation='softmax')(x)
        model = Model(inputs = resnet.input,outputs=preds)
        for layer in resnet.layers:
            layer.trainable = False
        train_datagen=ImageDataGenerator(preprocessing_function=preprocess_input) #inclu
        test datagen=ImageDataGenerator(preprocessing function=preprocess input)
        train generator=train datagen.flow from directory('/content/output/train', # thi
                                                          target size=(224,224),
                                                          color_mode='rgb',
                                                          batch size=32,
                                                          class mode='categorical',
                                                          shuffle=True)
        test generator=test datagen.flow from directory('/content/output/val', # this is
                                                          target size=(224,224),
                                                          color_mode='rgb',
                                                          batch_size=32,
                                                          shuffle=False)
```

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model.compile(optimizer='Adam',
                       loss='categorical crossentropy',
                       metrics=['accuracy'])
        print(train_generator.n)
        print(train generator.batch size)
        print(746//32)
        step size train=train generator.n//train generator.batch size
        r = model.fit generator(generator=train generator,
                             validation_data=test_generator,
                            steps per epoch=step size train,
                            epochs=20)
        acc=model.evaluate generator(test generator)
        print(acc[1])
        Archive: /content/drive/My brive/Covidiarred/bataset_kaggie.zip
           creating: Dataset_kaggle/
           creating: Dataset kaggle/COVID/
         extracting: Dataset kaggle/COVID/Covid (1).png
          inflating: Dataset_kaggle/COVID/Covid (10).png
          inflating: Dataset kaggle/COVID/Covid (100).png
          inflating: Dataset kaggle/COVID/Covid (1000).png
          inflating: Dataset kaggle/COVID/Covid (1001).png
          inflating: Dataset kaggle/COVID/Covid (1002).png
          inflating: Dataset kaggle/COVID/Covid (1003).png
          inflating: Dataset kaggle/COVID/Covid (1004).png
          inflating: Dataset kaggle/COVID/Covid (1005).png
          inflating: Dataset kaggle/COVID/Covid (1006).png
          inflating: Dataset kaggle/COVID/Covid (1007).png
          inflating: Dataset kaggle/COVID/Covid (1008).png
          inflating: Dataset kaggle/COVID/Covid (1009).png
          inflating: Dataset kaggle/COVID/Covid (101).png
          inflating: Dataset_kaggle/COVID/Covid (1010).png
          inflating: Dataset kaggle/COVID/Covid (1011).png
In [2]:
        acc=model.evaluate generator(test generator)
        print(acc[1])
        0.9295774698257446
In [ ]:
```