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In [1]:
         import keras
         from keras.preprocessing.image import ImageDataGenerator
         #Define the parameters/arguments for ImageDataGenerator class
In [2]:
         train datagen=ImageDataGenerator(rescale=1./255, shear range=0.2, rotation range=180, zoom range
         test datagen=ImageDataGenerator(rescale=1./255)
         #Applying ImageDataGenerator functionality to trainset
In [3]:
         x train=train datagen.flow from directory(r'C:\Users\dhine\Downloads\archive\Dataset\Dataset\
                                                    target size=(128,128),
                                                    batch size=32,
                                                    class_mode='binary')
         Found 436 images belonging to 2 classes.
         #Applying ImageDataGenerator functionality to testset
In [4]:
         x test=test datagen.flow from directory(r'C:\Users\dhine\Downloads\archive\Dataset\Dataset\te
                                                  target size=(128,128),
                                                  batch size=32,
                                                  class mode='binary')
         Found 121 images belonging to 2 classes.
         #import model building libraries
In [5]:
         #To define Linear initialisation import Sequential
         from keras.models import Sequential
         #To add layers import Dense
         from keras.layers import Dense
         #To create Convolution kernel import Convolution2D
         from keras.layers import Convolution2D
         #import Maxpooling Layer
         from keras.layers import MaxPooling2D
         #import flatten layer
         from keras.layers import Flatten
         import warnings
         warnings.filterwarnings('ignore')
In [7]: #initializing the model
         model=Sequential()
         #add convolutional layer
In [8]:
         model.add(Convolution2D(32,(3,3),input_shape=(128,128,3),activation='relu'))
         #add maxpooling layer
         model.add(MaxPooling2D(pool_size=(2,2)))
         #add flatten layer
         model.add(Flatten())
         #add hidden Layer
In [9]:
         model.add(Dense(150,activation='relu'))
         #add output layer
         model.add(Dense(1,activation='sigmoid'))
         #configure the learning process
In [10]:
         model.compile(loss='binary_crossentropy',optimizer="adam",metrics=["accuracy"])
In [ ]:
```