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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'))
In [ ]:
```