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In [1]:
          import keras
          from keras.preprocessing.image import ImageDataGenerator
 In [8]:
          #Define the parameters/arguments for ImageDataGenerator class
          train_datagen=ImageDataGenerator(rescale=1./255,shear_range=0.2,rotation_range=180,zoom_range=0.2,horizontal_flip=True)
          test datagen=ImageDataGenerator(rescale=1./255)
In [11]: | #Applying ImageDataGenerator functionality to trainset
          x_train=train_datagen.flow_from_directory('/content/Dataset/Dataset/train_set', target_size=(128,128), batch_size=32, class_mode='binary')
         Found 436 images belonging to 2 classes.
In [12]: #Applying ImageDataGenerator functionality to testset
          x\_test=test\_datagen.flow\_from\_directory('/content/Dataset/Dataset/test\_set', target\_size=(128,128), batch\_size=32, class\_mode='binary')
         Found 121 images belonging to 2 classes.
In [27]: | #import model building libraries
          #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 [28]: | #initializing the model
          model=Sequential()
In [29]: | #add convolutional layer
          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())
In [34]: | #add hidden Layer
          model.add(Dense(150,activation='relu'))
          #add output Laver
          model.add(Dense(1,activation='sigmoid'))
In [38]:
          #configure the learning process
          model.compile(loss='binary_crossentropy',optimizer="adam",metrics=["accuracy"])
 In [ ]:
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