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"import keras\n",

"from keras.preprocessing.image import ImageDataGenerator"

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"#Define the parameters/arguments for ImageDataGenerator class\n",

"train\_datagen=ImageDataGenerator(rescale=1./255,shear\_range=0.2,rotation\_range=180,zoom\_range=0.2,horizontal\_flip=True)\n",

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"test\_datagen=ImageDataGenerator(rescale=1./255)"

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"#Applying ImageDataGenerator functionality to trainset\n",

"x\_train=train\_datagen.flow\_from\_directory('/content/drive/MyDrive/Dataset/Dataset/train\_set',target\_size=(128,128),batch\_size=32,class\_mode='binary')"

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"#import model building libraries\n",

"\n",

"#To define Linear initialisation import Sequential\n",

"from keras.models import Sequential\n",

"#To add layers import Dense\n",

"from keras.layers import Dense\n",

"#To create Convolution kernel import Convolution2D\n",

"from keras.layers import Convolution2D\n",

"#import Maxpooling layer\n",

"from keras.layers import MaxPooling2D\n",

"#import flatten layer\n",

"from keras.layers import Flatten\n",

"import warnings\n",

"warnings.filterwarnings('ignore')"

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"#initializing the model\n",

"model=Sequential()"

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"#add convolutional layer\n",

"model.add(Convolution2D(32,(3,3),input\_shape=(128,128,3),activation='relu'))\n",

"#add maxpooling layer\n",

"model.add(MaxPooling2D(pool\_size=(2,2)))\n",

"#add flatten layer \n",

"model.add(Flatten())"

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"#add hidden layer\n",

"model.add(Dense(150,activation='relu'))\n",

"#add output layer\n",

"model.add(Dense(1,activation='sigmoid'))"

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"#configure the learning process\n",

"model.compile(loss='binary\_crossentropy',optimizer=\"adam\",metrics=[\"accuracy\"])"

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"#Training the model\n",

"model.fit\_generator(x\_train,steps\_per\_epoch=14,epochs=10,validation\_data=x\_test,validation\_steps=4)"

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"Epoch 2/10\n",

"14/14 [==============================] - 26s 2s/step - loss: 0.6577 - accuracy: 0.6445 - val\_loss: 0.6765 - val\_accuracy: 0.5950\n",

"Epoch 3/10\n",

"14/14 [==============================] - 25s 2s/step - loss: 0.6532 - accuracy: 0.6445 - val\_loss: 0.6820 - val\_accuracy: 0.5950\n",

"Epoch 4/10\n",

"14/14 [==============================] - 26s 2s/step - loss: 0.6512 - accuracy: 0.6445 - val\_loss: 0.6794 - val\_accuracy: 0.5950\n",

"Epoch 5/10\n",

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"Epoch 6/10\n",

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"Epoch 7/10\n",

"14/14 [==============================] - 26s 2s/step - loss: 0.6509 - accuracy: 0.6445 - val\_loss: 0.6807 - val\_accuracy: 0.5950\n",

"Epoch 8/10\n",

"14/14 [==============================] - 25s 2s/step - loss: 0.6513 - accuracy: 0.6445 - val\_loss: 0.6815 - val\_accuracy: 0.5950\n",

"Epoch 9/10\n",

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"Epoch 10/10\n",

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