

## Model Creation

```

from keras.models import Sequential
from keras.layers import Convolution2D
from keras.layers import MaxPooling2D
from keras.layers import Activation
from keras.layers import Dropout
from keras.layers import Flatten
from keras.layers import Dense
model=Sequential()
model.add(Convolution2D(32,(3,3),input_shape=(150,150,3)))
model.add(Activation('relu'))
model.add(MaxPooling2D(pool_size=(2,2)))
model.add(Flatten())
model.add(Dense(150))
model.add(Activation('relu'))
model.add(Dropout(0.5))
model.add(Dense(1))
model.add(Activation('sigmoid'))
model.compile(
    loss='binary_crossentropy',
    optimizer='adam',
    metrics=['accuracy']
)
model.summary()

```

### Output:

Model: "sequential"

Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 148, 148, 32)	896
activation (Activation)	(None, 148, 148, 32)	0
max_pooling2d (MaxPooling2D)	(None, 74, 74, 32)	0
flatten (Flatten)	(None, 175232)	0
dense (Dense)	(None, 150)	26284950
activation_1 (Activation)	(None, 150)	0
dropout (Dropout)	(None, 150)	0
dense_1 (Dense)	(None, 1)	151
activation_2 (Activation)	(None, 1)	0
Total params: 26,285,997		
Trainable params: 26,285,997		
Non-trainable params: 0		