

```

model.add(Conv2D(32,(3,3),strides=2,padding='Same',activation='relu',input_shape
=(128, 128, 1)))
    model.add(MaxPool2D(2,2))
    model.add(BatchNormalization())
    model.add(Dropout(0.3)) #here added dropout
    model.add(Conv2D(64,(3,3), strides=1,padding= 'Same', activation='relu'))
    model.add(MaxPool2D(2,2))
    model.add(BatchNormalization())

    model.add(Conv2D(128,(3,3), strides=1,padding= 'Same', activation='relu'))
    model.add(BatchNormalization())

    model.add(Conv2D(256,(3,3), strides=1,padding= 'Same', activation='relu'))
    model.add(MaxPool2D(2,2))
    model.add(BatchNormalization())
    model.add(Flatten())
    model.add(Dropout(0.5))
    model.add(Dense(512, activation = "relu"))
    model.add(Dropout(0.5))
    model.add(Dense(3, activation = "softmax"))

    model.compile(optimizer=keras.optimizers.Adam(learning_rate= 1e-3),
        loss='sparse_categorical_crossentropy',
        metrics=['accuracy'])

```