

```

#defining our model, All the layers and configurations
def Load_CNN(Output_size):
    K.clear_session()
    model = Sequential()
    model.add(Dropout(0.4, input_shape=(224, 224, 3)))
    model.add(Conv2D(256, (5, 5), input_shape=(224, 224, 3), activation='relu'))
    model.add(MaxPool2D(pool_size=(2, 2)))
    #model.add(BatchNormalization())
    model.add(Conv2D(128, (3, 3), activation='relu'))
    model.add(MaxPool2D(pool_size=(2, 2)))
    #model.add(BatchNormalization())
    model.add(Conv2D(64, (3, 3), activation='relu'))
    model.add(MaxPool2D(pool_size=(2, 2)))
    #model.add(BatchNormalization())
    model.add(Flatten())
    model.add(Dense(512, activation='relu'))
    model.add(Dropout(0.3))
    model.add(Dense(256, activation='relu'))
    model.add(Dropout(0.3))
    model.add(Dense(128, activation='relu'))
    model.add(Dropout(0.3))
    model.add(Dense(Output_size, activation='softmax'))
    return model

```