It is an important diagnostic pattern that doctors judge whether the patient is healthy by observing the body image of the patient, such as X-ray imaging and ultrasonic imaging. In the past, medical images were often interpreted by doctors, the kind of method has some disadvantages, for example, low efficiency, strong subjectivity and easy to be affected by fatigue. In order to solve the above problems, it is urgent to develop the technology of computer-aided medical diagnosis. At present, the most effective method is to use a model called convolution neural network（CNN） to detect the images of possible diseased tissue and mark the areas where problems may occur. In 2012, Alexnet proposed by Hinton et al. won the championship in Imagenet large scale visual recognition challenge. In 2016, Deep Residual Learning for Image Recognition proposed by He Keming et al from Microsoft Research Asia achieved further success on the basis of predecessors. Saxena et al. designed a model, which uses pre trained CNN for feature extraction, and use support vector machine as classification for breast lesion detection, and achieved good results.