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**Abstract**

The aim of this study was to evaluate the diagnostic accuracy of multipurpose image analysis software based on deep learning with InceptionV3 for the detection of breast cancer in an independent, mammography data set. A neural network is trained to detect the spot at based on Threshold. The system also do image enhancement and image segmentation of the mammogram images and detect the spot of the cancer. And the list of questions are asked to know the risk of the cancer occur in future and to know the reason behind the cancer. Waiting for diagnosing a breast cancer for a long time may increase the possibility of the cancer spreading. Therefore a computerized breast cancer diagnosis has been developed to reduce the time taken to diagnose the breast cancer and reduce the death rate.

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