

ABSTRACT

Brain Tumour is a sort of dangerous cancer and difficult to detect. It usually causes death for both gender men & women therefore, so it is more necessary for care to immediately & correctly examine nodules. Accordingly, several techniques have been implemented to detect brain tumour in the early stages. In this process a comparative analysis of different techniques based on machine learning and deep learning for detection brain tumour have been presented. There have been too many methods developed in recent years to diagnose brain tumour, most of them utilizing MRI scan images. In addition, multiple classifier methods are paired with threshold segmentation algorithms to use image recognition to identify tumour. From this process it has been found that MRI scan gray scale images are more suitable to have the accurate results. Therefore, mostly MRI scan images are used for detection of tumour from brain. In Addition, the results that obtained from the methods based deep learning techniques like Convolutional Neural Network, Hybrid InceptionV4Resnetv2 and Google Net are user to train the dataset and achieved higher. The deep learning algorithms are implemented and predict the result in terms of accuracy, precision, recall and f1 score. CNN provides an better accuracy above 90%.