**CONCLUSION**

This paper provides a new method for detecting brain tumour by deep learning method. The early detection of cancer helps timely and effective treatment. Kaggle dataset contains good quality of MRI images for research purposes. Different segmentation algorithms were experimented. From this, multilevel thresholding and OTSU thresholding are the best methods for the dataset. Convolutional Neural Network with modified approach helped to get a result with accuracy 98%.

Density estimation method is also proposed using Gaussian kernel distribution. This system can be improved to support with a web interface. Detection of different diseases can be also identified from the MRI images. Apart from the density some other parameters can also estimated for therapeutic purposes.