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Authors:	Mir Tanzid Ahmed (BRAC University, Bangladesh); Mir Sazid Hassan (North South University, Bangladesh); Tasnim Habib (BRAC University, Bangladesh); Khandoker Maruf Bin Islam (Bangladesh University of Engineering and Technology (BUET), Bangladesh)
Email:	mir.tanzid.ahmed@g.bracu.ac.bd

Abstract

Human beings have a lot of fatal disease but Brain tumor is one of the deadliest among them. Many brain tumor patients die without proper diagnosis. Brain tumor can be found in many types but to be very specific there can be found two main types such as benign and malignant. Malignant tumors are cancerous and cause many deaths. If brain tumor is detected correctly at early stage, treatments for the tumor will be more effective. Brain tumor is mainly detected by 2D magnetic resonance brain images (MRI). Human assisted image detection technique can give inaccurate results and for this reason we are proposing the model that includes deep learning which detects tumors efficiently. An accuracy of 98% was gained successfully by the model in distinguishing between images with and without brain tumors. This approach involves preprocessing MRI images, constructing a Convolutional Neural Network (CNN) model and evaluating its performance using various metrics.