D.Y.PATIL COLLEGE OF ENGINEERING AND TECHNOLOGY

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

(Academic Year 2021-2022)

Classification of Brain Lesion and Grade Using MRI Texture and Shape in Machine Learning Scheme

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The human body is composed of numerous types of cells. The extra cells formed form a mass of tissue which is called tumor. A brain tumor is a collection of abnormal cells in the brain. Tumors can be benign or malignant. Malignant tumors lead to cancer while benign tumors are not cancerous. automated tumor detection methods are developed as it would save radiologist time. The MRI brain tumor detection is complex task due to complexity and variant of tumors. Tumor is identified in brain MRI using Machine Learning algorithms.

The proposed work is divided into three sections: Preprocessing steps are applied on the brain MRI images, then texture features are extracted using Gray Level Co-occurrence Matrix (GLCM) and finally classification is performed using machine learning algorithm.