**BRAIN TUMOR DETECTION USING K-MEANS CLUSTERING**

**A MINI PROJECT REPORT**

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**BONAFIDE CERTIFICATE**

Certified that this mini project report **“BRAIN TUMOR DETECTION USING K-MEANS CLUSTERING”** is the bonafide work of **“G.Dharani(15euit024),S.Divya Bharathi(15euit028), B. N. Faheen Fathima (15euit030),S.Hindu Sreeni(15euit040)**” who carried out the project work under my supervision.

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**ABSTRACT**

Medical image segmentation has been one of the most important fields where technology is blooming. In this paper, we propose a system where magnetic image of brain is segmented using unsupervised learning and clustered for identification and detection of tumor. The image is spilt into number of clusters using color-based centroids which is further segmented to identify the tumor in the segment. Furthermore, the specified image is processed to form a binary image where the size of tumor is found.

Thus the MRI of brain is processed using segmentation and K-Means clustering to separately analyze the area of interest in the images.

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