

(54) Title of the invention : BRAIN TUMOR DETECTION USING DEEP LEARNING TECHNIQUE

<p>(51) International classification :G06N0003040000, G06N0003080000, A61B0005055000, G16H0030400000, A61B0005000000</p> <p>(86) International Application No Filing Date :NA :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)Ms.P.Sumanya</b> Address of Applicant :Assistant Professor, Department of CSE-CS, Malla Reddy Engineering College( Autonomous), Maisammaguda (Post. Via. Kompally), Mechal-Malkajgiri-500100. Maisammaguda -----</p> <p><b>2)Malla Reddy Engineering College</b> Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p><b>1)Ms.P.Sumanya</b> Address of Applicant :Assistant Professor, Department of CSE-CS, Malla Reddy Engineering College( Autonomous), Maisammaguda (Post. Via. Kompally), Mechal-Malkajgiri-500100. Maisammaguda -----</p> <p><b>2)B. Swetha Bindu</b> Address of Applicant :Assistant Professor, Department of CSE-CS , Malla Reddy Engineering College( Autonomous), Maisammaguda (Post. Via. Kompally), Mechal-Malkajgiri-500100. Maisammaguda -----</p> <p><b>3)D.Rabiya Begum</b> Address of Applicant :Assistant Professor, Department of CSE-CS , Malla Reddy Engineering College( Autonomous), Maisammaguda (Post. Via. Kompally), Mechal-Malkajgiri-500100. Maisammaguda -----</p> <p><b>4)R. Mounika</b> Address of Applicant :Assistant Professor, Department of CSE-CS , Malla Reddy Engineering College( Autonomous), Maisammaguda (Post. Via. Kompally), Mechal-Malkajgiri-500100. Maisammaguda -----</p> <p><b>5)K.Suma</b> Address of Applicant :Assistant professor , Department of CSE-CS , Malla Reddy Engineering College( Autonomous), Maisammaguda (Post. Via. Kompally), Mechal-Malkajgiri-500100. Maisammaguda -----</p> <p><b>6)Dr.P.Srinivas</b> Address of Applicant :Associate Professor, Department of CSE-CS , Malla Reddy Engineering College( Autonomous), Maisammaguda (Post. Via. Kompally), Mechal-Malkajgiri-500100. Maisammaguda -----</p> <p><b>7)Dr.K.Vasanth Kumar</b> Address of Applicant :Professor, Department of CSE-IOT , Malla Reddy Engineering College( Autonomous), Maisammaguda (Post. Via. Kompally), Mechal-Malkajgiri-500100. Maisammaguda -----</p> <p><b>8)V.ANUJA</b> Address of Applicant :Assistant Professor, Department of CSE-IOT , Malla Reddy Engineering College( Autonomous), Maisammaguda (Post. Via. Kompally), Mechal-Malkajgiri-500100. Maisammaguda -----</p> <p><b>9)N.Niteesha</b> Address of Applicant :Assistant Professor, Department of CSE-IOT , Malla Reddy Engineering College( Autonomous), Maisammaguda (Post. Via. Kompally), Mechal-Malkajgiri-500100. Maisammaguda -----</p>
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(57) Abstract :

Various modalities are employed to scan various human body components. With more information than other modalities like X-ray, PTE, CT scan, etc., MRI (Magnetic Resonance Imaging) is one of the most crucial techniques for scanning the human brain. For the purpose of finding anomalies in the human brain, several researchers use MRI scanning. This project suggests utilizing deep learning to automatically detect brain tumors. Although there are numerous works on the identification and categorization of brain tumors using various modalities, the existing methods are less accurate and more labor-intensive. The proposed strategy, which uses the CNN (Convolutional Neural Network) model of deep learning, is applied to address the shortcomings of the present method. Both a subjective and an objective analysis of the proposed CNN model is conducted. In comparison to state-of-the-art procedures, the proposed technique has a lower run-time complexity and a higher accuracy.

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