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(51) International classification	:G06V 10/80, G11B 7/128, B64U 70/10, B64U 101/16, H03C 1/50	(71) Name of Applicant : 1)NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY Address of Applicant :19, Knowledge Park-II, Institutional Area, Greater Noida – 201306, Uttar Pradesh, India. Uttar Pradesh India (72) Name of Inventor : 1)YADUVIR SINGH 2)Dr. SARIKA AGARWAL
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(57) Abstract :

The invention relates to a computer system (100) for early detection of brain tumors. The system includes a preprocessing module (110) for standardizing medical images, a feature extraction module (120) for capturing tumor-related features, and a classification module (130) for distinguishing between normal and abnormal tissues. A storage module (140) securely maintains diagnostic data, while a visualization interface (150) provides interpretable outputs with highlighted tumor regions and confidence scores. The system enhances diagnostic accuracy, reduces manual errors, and supports early intervention in brain tumor cases.

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