



VIVEKANAND EDUCATION SOCIETY'S INSTITUTE OF TECHNOLOGY

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LBS I2I:IDEA TO IMPLEMENTATION COMPETITION 2022-23

BRAIN TUMOR DETECTION USING CNN



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INTRODUCTION	METHODOLOGY	BLOCK DIAGRAM/MODULAR DIAGRAM	
<p>We aim to develop a machine learning model using CNNs to detect brain tumours in MRI scans accurately. The tool will help medical professionals improve early detection and patient outcomes.</p>	<ul style="list-style-type: none">Using the dataset, the model changes the contouring, cropping, resizing, and other attributes of the photos.Data augmentation is used to create multiple photos with different visual attributes, and MLP networks are used to identify tumour locations in an image.		
PROBLEM STATEMENT	RESULT AND ANALYSIS	APPLICATIONS	
<p>Tumors in the brain area are difficult to detect due to heterogeneous size, shape, location, and boundaries, as well as human errors and inefficient detection.</p>	<ul style="list-style-type: none">Brain Tumor Detection in MRI images with greater than 85% accuracy.Predicting Brain Tumor size and location and in the brain image.Predicting Tumor type and tumor treatment methods.	<ul style="list-style-type: none">Early detection of brain tumours for prompt treatmentImproving the accuracy and speed of diagnosisTracking the progression of brain tumours	