**DETECTION OF BRAIN TUMOUR DIAGNOSIS USING AI**

**ABSTRACT**

Brain tumors are one of the most serious health concerns, and early detection can make a huge difference in treatment outcomes. In this mini-project, we are developing an AI-based system that predicts the future risk of a person developing a brain tumor, rather than just identifying existing cases.Our approach involves analyzing MRI scans and patient-related factors to estimate the likelihood of tumor development. We are using the BraTS dataset for MRI images and generating synthetic data to incorporate additional risk factors. By combining these inputs, our model will provide a probability score instead of a simple Yes/No result—something like “This patient has a 70% risk of developing a brain tumor.” The system will have a simple interface where doctors or researchers can input patient data and get AI-based insights. While this is a mini-project, we believe it could serve as a starting point for more advanced research in predictive healthcare. Our goal is to understand how AI can help with early risk assessment, potentially leading to earlier medical intervention and better patient outcomes.

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