

Building a diagnostic support application for certain types of brain tumors and pathologies based on computed tomography image segmentation

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Abstract: In the context of healthcare increasingly focusing on the efficiency and accuracy of diagnostic methods, this topic focuses on building an application to support the diagnosis of certain types of brain tumors and pathologies. This research aims to use computed tomography (CT) image segmentation as a tool to improve the diagnostic process. The research method is based on a combination of machine learning theory and experimentation, including training classification models and optimizing the system. The expected results of this topic not only contribute to improving the quality of diagnosis in hospitals but also play an important role in the development of medical technology based on artificial intelligence.

Keywords: Brain diagnosis, CT segmentation, diagnostic assistance application, artificial intelligence