



BRAIN TUMOR PREDICTION USING CONVOLUTIONAL NEURAL NETWORK (CNN)

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Tools



GOOGLE COLAB

Helps to create and visualize interactive dashboards to generate useful insights.



PYTHON

to view the overall data easily

BACKGROUND

Brain cancer is a disease that has a high fatality rate and is often difficult to detect at an early stage. Early detection of brain tumors is crucial to increase the chances of successful treatment and improve patients' life expectancy. However, conventional methods of diagnosis, such as MRI (Magnetic Resonance Imaging) and manual analysis by radiologists, are often time-consuming, dependent on the expertise of doctors, and prone to subjective errors.

With the development of artificial intelligence (AI) and deep learning technologies, especially Convolutional Neural Network (CNN), automation in brain tumor detection from MRI images can be a faster and more accurate solution. CNN is one of the deep learning architectures that is very effective in image analysis due to its ability to recognize patterns and features automatically without requiring manual feature extraction.

In this project, a CNN-based brain tumor prediction model will be developed to classify whether an MRI image shows a tumor or not. This model is expected to assist medical personnel in detecting brain tumors more efficiently and accurately, so as to support decision making in diagnosis and treatment planning.



VIEW THE SOURCE CODE ON GITHUB

tusind tak
謝謝 dakujem vám
ありがとう
suksem
danke
gracias
obrigada
obrigado
teşekkür ederim
tack så mycket

ngiyabonga
dziękuję
merci
Kbaie dankie
ধন্যবাদ molte grazie
ou
gràcies
tänan
t
dank u
für edire
maalo
eşekküreşe