

Liver Disease Detection using Deep Learning

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Abstract: A highly contagious blood-borne disease, liver cirrhosis is frequently asymptomatic in its early stages. It is therefore difficult to diagnose and treat individuals in the early phases of sickness. The sickness gets harder to diagnose and treat as it gets closer to its latter stages. The aim of this effort is to provide a deep learning and machine learning based artificial intelligence system that could help medical professionals diagnose liver cirrhosis early. The suggested system uses high-frequency ultrasound image reading to provide a fully automated approach of diagnosing liver cirrhosis. The differences between the textural patterns of healthy and sick livers have been made visible by these methods. The confirmation of the differences in liver texture between diseases and even between mild and severe instances within a single disease was made possible by these noteworthy results. These techniques are easier to handle and put into practice. It is impossible to discuss the excellence of a particular technique. Different diseases can require different analyses. When differentiating between distinct tissue textures, however, the combination of various approaches can yield encouraging results.

Keywords: Image Processing, Prediction, Healthcare, Data analytics, CNN, SVM

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