

STATISTICAL MACHINE LEARNING APPROACHES TO LIVER DISEASE PREDICTION

A PROJECT REPORT

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ABSTRACT

Liver disease is a serious health condition affecting millions of people worldwide. Early detection and treatment are essential in managing liver disease and preventing it from progressing to more severe stages. In recent years, machine learning has gained popularity in the medical field as a promising tool for accurately predicting the risk of liver disease. In this project, we propose a machine learning-based system for liver disease prediction that combines clinical and demographic data to accurately predict the risk of liver disease.

Data preprocessing techniques, such as imputation, feature scaling, and feature selection are used ensure that our models are as accurate as possible. The proposed system is designed to integrate with existing healthcare systems, making it easier for healthcare providers to access and utilize the tool. The system is user-friendly and provides clear and interpretable results, enabling clinicians to make informed decisions about patient care. By providing accurate and timely predictions, our system has the potential to revolutionize liver disease prediction and improve patient outcomes

Proposed machine learning-based system for liver disease prediction has the potential to significantly improve patient outcomes and revolutionize the way liver disease is managed.