Nalaiya Thiran Project

Literature Survey

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Paper Title	Citation	Descricption
A Survey on machine learning techniques for the diagnosis of liver disease	Golmei Shaheamlung; Harshpreet Kaur; Mandeep Kaur (2020). *[IEEE 2020 2020 International Conference on Intelligent Engineering and Management (ICIEM)] 2020* A Survey on machine learning techniques for the diagnosis of liver disease 978-1-7281-4097-1/20/$31.00 ©2020 IEEE	Suffering from liver disease has been rapidly increasing due to excessive drink of alcohol, inhale polluted gas, drugs, contamination food and packing food pickle, so the medical expert system will help a doctor to automatic prediction. With the repeated development in machine learning technology, early prediction of liver disease is possible so that people can easily diagnosis the deadly disease in the early stage. The liver plays a very important role in life which supports the removal of toxins from the body. The motive of this paper is to give a survey and comparative analysis of the entire machine learning techniques for diagnosis and prediction of liver disease in the medical area, which has already been used for the prediction of liver disease by various authors and the analysis are based on Accuracy, Sensitivity, Precision, and Specificity.

A Comparitive Study of Clasification Liver Dysfunction with Machine Learning	Sattarpoom Thaiparnit1, Narumol Chumuang2 and Mahasak Ketcham3 “A Comparitive Study of Clasification Liver Dysfunction with Machine Learning” 2018 978-1-7281-0164-4/18/$31.00 ©2018 IEEE 2018 International Joint Symposium on Artificial Intelligence and Natural Language Processing (iSAI-NLP)	This article presents the comparison and comparison of data of patients with liver dysfunction. By collecting information on liver disease and collecting data for selection in data mining. The Liver Disorders Data Set (UCI Machine Learning Repository) was used to compare the 359 patients with liver disease. The classification consisted of 7 types of liver disease and divided into 2 classes, namely, those with normal liver function and those who did not.
Machine Learning with Abstention for Automated Liver Disease Diagnosis	Kanza Hamid , Amina Asif , Wajid Arshad. Abbasi , Durre Sabih , Fayyaz-ul-Amir Afsar Minhas “ Machine Learning with Abstention for Automated Liver Disease diagnosis ”2017 International Conference on Frontiers of Information Technology 0-7695-6347-3/17/$31.00 ©2017 IEEE DOI 10.1109/FIT.2017.00070	The proposed model abstains from generating the label of a test example if it is not confident about its prediction. The proposed method has been benchmarked on a data set of approximately 100 patients from MINAR, Multan, Pakistan and our results show that the performance of the proposed scheme is at par with medical experts.
Prediction of Liver Disease using Classification Algorithms	Thirunavukkarasu K, Ajay S. Singh, Md Irfan , Abhishek Chowdhury “Prediction of Liver Disease using Classification Algorithm” 2018 4th International Conference on Computing Communication and Automation (ICCCA) 978-1-5386-6947-1/18/$31.00 ©2018 IEEE	We know that Machine Learning algorithms can also be used to find hidden information for diagnosis and effective decision making. In recent years, Liver disorders have increased rapidly and it is considered to be a very fatal disease in many countries like – Egypt, Moldava etc. For this research paper, the main aim is to predict liver disease using different classification algorithms. The algorithms used for this purpose of work is Logistic Regression, K-Nearest Neighbour and Support Vector Machines. Accuracy score and confusion matrix is used to compare this classification algorithm.
Diagnosis of Liver Diseases using Machine Learning	Sumedh Sontakke1, Jay Lohokare, Reshul Dani “Diagnosis of Liver Disease using Machine Learning” 2017 International Conference on Emerging Trends & Innovation in ICT (ICEI) Pune Institute of Computer Technology, Pune, India, Feb 3-5, 2017	Liver disease is also difficult to diagnose in the early stages owing to subtle symptoms. Often the symptoms become apparent when it is too late. This paper aims to improve diagnosis of liver diseases by exploring 2 methods of identification patient parameters and genome expression. The paper also discusses the computational algorithms that can be used in the aforementioned methodology and lists demerits. It proposes methods to improve the efficiency of these algorithms.