Early Detection Of Chronic Kidney Disease Using Machine Learning

LITERATURE SURVEY

SNO	TITLE	AUTHOR	DESCRIPTION	YEAR OF PUBLICATION
1	Optimal Feature Selection for Chronic Kidney Disease Classification using Deep Learning Classifier	K.Shankar, P. Manickam, G. Devika,M. Ilayaraja	**ALGORITHM USED:** Deep Neural Network (DNN). **ACCURACY:** Greatest accuracy around 98% of DNN.	2018
2	Performance Evaluation of an Ensemble Method for Diagnosis of Chronic Kidney Disease with Feature Selection Technique	Olayinka Ayodele Jongbo, Toluwase Ayobami OlowooAdebayo Olusola Adetunmbikere.	**ALGORITHM USED:** Radom forest algorithm ,Naïve Bayes, kNearest Neighbor, and Decision Tree. **ACCURACY:** We gain the highest accuracy from the Random Forest(RF) and it is 98.3%.	2020
3	XGBoost Model for Chronic Kidney Disease Diagnosis	Adeola Ogunleye and Qing-Guo Wang	**ALGORITHM USED:** Extreme Gradient Boosting (XGBoost). **ACCURACY:** Acucuracy gained 89%	2018
4	Performance Analysis of Chronic Kidney Disease through Machine Learning	Minhaz Uddin Emon, Al Mahmud Imran,	**ALGORITHM USED:** Logistic Regression(LG), Naive Bayes(NB), Multilayer Perceptron(MLP), Stochastic	2021

	Approaches	Rakibul Islam.	Gradient Descent(SGD), Adaptive Boosting(Adaboost), Bagging, Decision Tree(DT), Random Forest(RF) classifier are used. **ACCURACY:** We gain the highest accuracy from the Random Forest(RF) and it is 99	
5	Preemptive Diagnosis of Chronic Kidney Disease Using Machine Learning Techniques	Reem A. Alassaf , Khawla A. Alsulaim ,Noura Y. Alroomi , Nouf S. Alsharif, Mishael F. Aljubeir, Sunday O. Olatunji, Alaa Y. Alahmadi, Mohammed Imran, Rahma A. Alzahrani, Nora S. Alturayeif.	**ALGORITHM USED:** ANN, SVM, Naïve Bayes . **ACCURACY:** ANN, SVM, Naïve Bayes achieved a testing accuracy of 98.0% while k-NN has achieved an accuracy of 93.9%.	2018
6	Featue selection effects on kidney disease analysis.	Zeinab Sedighi, Hossein Ebrahimpour-Komleh, Seyed Jalaleddin Mousavirad .	**ALGORITHM USED:** AdaBoost,Adaptive Boosting,Naïve Bayes classifier. **ACCURACY:** 92% of accuracy gain.	2015
7	Analysis of Chronic Kidney Disease Dataset by Applying Machine Learning Methods.	Yedilkhan Amirgaliyev, Shahriar Shamiluulu, Azamat Serek.	**ALGORITHM USED:** support vector machines **ACCURACY:** Experimental results showed over 93% of success	2019

8	Predictive Analytics for Chronic Kidney Disease Using Machine Learning Techniques.	Anusorn Charleonnan, Thipwan Fufaung, Tippawan Niyomwong.	**ALGORITHM USED:** K-nearest neighbors (KNN), support vector machine (SVM), logistic regression (LR), and decision tree classifiers. **ACCURACY:** 96% of accuracy.	2016
9	Chronic Kidney Disease for Collaborative Healthcare Data Analytics using Random Forest Classification Algorithms.	V.Shanmuga rajeshwari , M. Ilayaraja.	**ALGORITHM USED:** Random forest, SVM and ANN algorithms. **ACCURACY:** 87% of accuracy.	2021
10	Diagnosis of Chronic Kidney Disease using effective classification and feature selection technique	Nusrat Tazin, Shahed Anzarus Sabab, Muhammed Tawfiq Chowdhury.	**ALGORITHM USED:** Support Vector Machine, Decision tree, Naïve Bayes and K-Nearest Neighbor. **ACCURACY:** 93% of accuracy.	2016