Early Detection Of Chronic Kidney Disease Using Machine Learning

TEAM ID	PNT2022TMID42128
PROJECT NAME	EARLY DETECTION OF CHRONIC KIDNEY DISEASE USING MACHINE LEARNING
COLLEGE NAME	AVS COLLEGE OF TECHNOLOGY

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 Approaches	Minhaz Uddin Emon, Al Mahmud Imran, Rakibul Islam.	**ALGORITHM USED:** Logistic Regression(LG), Naive Bayes(NB), Multilayer Perceptron(MLP), Stochastic 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	2021
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