PROPOSED SOLUTION

Date : 14 Nov 2022

Project Name : Early Detection Of Chronic Kidney Disease Using Machine Learning

Team ID : PNT2022TMID20701

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Sl No.	Parameter	Description
1.	Problem Statement	Chronic Kidney Disease is a major concern around the world. Chronic Kidney Disease is spreading at an alarming rate. Various efforts have been undertaken to advance early therapy to prevent the condition from progressing to CKD. Recent research suggests that early identification and treatment of CKD can help in avoiding the serious consequences of the disease.
2.	Feasibility of idea	To predict the early set of CKD, three Machine Learning techniques

		are used: Random Forest, Decision Tree, Support Vector Machines. Using these techniques, each algorithm's effectiveness is evaluated and the prediction of how many people have been affected by CKD is identified.
3.	Novelty	Two primary tests are used to identify the affected patient. A Blood Test -to determine Glomerular Filtration Rate. A Urine Test- to determine Albumin.
4.	Social Impact	Many people are not aware of taking regular body checkups which affect the early detection of CKD. This leads to increase in number of people severely affected be CKD worldwide.
5.	Social Impact	The use of machine learning in the process of detecting CKD has lead to medical innovation, lowers medical expenses, and improves medical quality. Various patients have recovered easily from CKD because of early prediction
6.	Scalability of solution	CKD has been spreading widely across the globe. Early prediction of CKD using Machine Learning is more efficient to analyze the disease so that it can be cured on time.