

Data Driven Decision Making for Renal Function Assessment

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Abstract: *AI is transforming our lives. In healthcare, machine learning can predict diseases, especially in regions with limited medical resources. Chronic kidney disease (CKD) is a major global health concern. We propose the utilization of machine learning models for early detection of CKD utilization dataset, which were collected by a team of doctors in one of the top centers of treating CKD world, we aim to help the patient discover the disease early and provide suitable healthcare before reach the point of no return of the disease. We utilized three well established and common machine learning approaches (logistic regress, k nearest neighbors and support vector machine) k nearest neighbors achieved 87%, 88% ,88% 87% and 13% accuracy, precision , recall , F1 and MAE respectively outperforming both support vector machine and logistic regression*

Keywords: Chronic kidney disease

