

Leveraging Machine Learning for Predicting Chronic Kidney Disease: Techniques and Application

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Abstract: Renal work steadily declining over time is the trademark of constant kidney malady (CKD), a dynamic ailment. Noteworthy side impacts from this sickness incorporate frailty, bone anomalies, and cardiovascular issues. Kidney illness runs in the family, and diabetes and hypertension are hazard components. Early location is troublesome since the condition is regularly asymptomatic. With pharmaceutical, way of life alterations, and perhaps dialysis or transplantation in more progressed stages, administration points to ease issues, direct fundamental causes, and decrease the disease's course. In arrange to move forward persistent results and quality of life, awareness-raising and early intercession are essential.

Keywords: Constant kidney malady (CKD), Renal failure, Kidney function, Early detection Machine learning (ML), Predictive modeling