PROJECT OBJECTIVES

Early detection of Chronic kidney Disease using Machine Learning.

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- **Chronic Kidney disease is a major area of interest since its an global health issue.**
- **Among one in ten people have CKD and one in three people is at increased risk of CKD, Worldwide highest rate of CKD is about 24 percentage found in sauid Arabia and Belgium.**
- **As reported by the GBDS(Global Burden of Disease Study) in 2010, from 27th in 1990 to 2010,CKD is determined as major cause for mortality .**
- **Chronic kidney disease affected people worldwide is around 500 million**

peopleDue to Untreated or failure of Kidney, around one million people die worldwide, Good Quality of life can be achieved by early detection of CKD i.e, stage prediction which can be treated by lowering the blood pressure, drugs, diet and lifestyle changes.

- **If patient with CKD is not treated they have 20 times more chance to die, so early diagnosis and treatment is important.**
- **Different Classification approaches for data mining and machine learning algorithms are used to detect chronic disease.**
- **Chronic disease is nothing but a disease that last over a long period time which requires proper medical attention and lifestyle change or both may be requires in some cases.**

- **This may result into a death and disability. woconcentrating more on chronic renal disease which is also known as chronic kidney disease.**
- **Current medical system requires more time for CKD prediction as it requires more time for diagnosis, consultation and experience etc.**
- **Our Work predominantly focuses on detecting life threatening disease like Chronic renal Disease using machine learning algorithms and predicts the stage of CKD using GFR which helps in early detection and reduces the severity of CKD.**