EARLY DETECTION OF CHRONIC KIDNEY DISEASE USING MACHINE LEARNING

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PROBLEM STATEMENT

Chronic kidney Disease (CKD) means your kidneys are damaged and not filtering your blood the way it should. The primary role of kidneys is to filter extra water and waste from your blood to produce urine and if the person has suffered from CKD, it means that wastes are collected in the body. This disease is chronic because of the damage gradually over a long period. It is flattering a common disease worldwide. Due to CKD may have some health troubles.

There are many causes for CKD like diabetes, high blood pressure, heart disease. Along with these critical diseases, CKD also depends on age and gender. If your kidney is not working, then you may notice one or more symptoms like abdominal pain, back pain, diarrhea, fever, nosebleeds, rash, vomiting.

Chronic kidney disease (CKD) is one of the most critical health problems due to its increasing prevalence. Chronic kidney disease, also known as chronic renal disease or CKD, is a condition characterized by a gradual loss of kidney function over time. It includes conditions that damage your kidneys and decrease their ability to keep you healthy by filtering wastes from your blood. Diabetes and high blood pressure, or hypertension, are responsible for two-thirds of chronic kidney disease cases. Anyone can get chronic kidney disease at any age.

However, some people are more likely than others to develop kidney disease. Most people may not have any severe symptoms until their kidney disease is advanced. A better testing method which could possibly detect CKD in the early stages would be much more useful. Medical test results taken for other purposes are used to detect CKD at early stages. Various efforts have been undertaken to advance early therapy to prevent the condition from progressing to chronic disease.

Recent research suggests that some of the negative outcomes can be avoided with early identification and treatment. Peculiar and contributing attributes from the abov mentioned test results are combined to develop a Machine Learning Model. This Machine Learning Model will be used to predict CKDs rather early than the presently existing methods.