EARLY DETECTION OF CHRONIC KIDNEY DISEASE USING MACHINE LEARNING

PROBLEM STATEMENT

- Chronic Kidney Disease (CKD) has become a major issue with a steady growth rate. A person can only survive without kidneys for an average time of 18 days, which makes a huge demand for a kidney transplants and Dialysis.
- Chronic kidney disease is detected during the screening of people who are known to be at threat by kidney problems, such as those with high blood pressure or diabetes and those with a blood relative to CKD patients.
- It is important to have effective methods for the early prediction of CKD. Machine learning methods are effective in CKD prediction.
- We aim to build efficient tools for predicting CKD occurrence, following an approach that exploits ML techniques.
- This work proposes a workflow to predict CKD status based on clinical data, incorporating data prepossessing, a missing value handling method with collaborative filtering and attribute selection.
- The main aim of this project is to predict whether the patient is suffering from Chronic Kidney Disease or not at a more accurate and faster rate of prediction using some specific measurements such as blood pressure rate, body sugar level rate, creatinine level, etc.