**CHRONIC KIDNEY DISEASE PREDICTION USING MACHINE LEARNING**

**PROJECT DOCUMENTATION**

**Introduction:**

Every year many people are diagnosed with Chronic Kidney Disease. Mostly people are diagnosed with later stages rather than the early stages, the major reason for this is people are not aware about the symptoms and they do not have a proper diagnosis in a very earlier stage. The result of early diagnosis is that they can be treated easily with effective therapy and medication, the later stages are tough to be treated and require high medication. The final stage is the renal failure, which leads to high damage to the life of the patient and risks high.

So, we have created a web application along with dataset so as to predict the chronic kidney disease in an earlier stage by the users without any medical help with higher accuracy and prediction.

**Literature Survey:**

**Existing Problem:** Chronic Kidney Disease (CKD) is a major medical problem, can be if treated in the early stages. Usually, people are not aware that medical tests we take for different purposes could contain valuable information concerning kidney diseases. Consequently, attributes of various medical tests are investigated to distinguish which attributes may contain helpful information about the disease. The information says that it helps us to measure the severity of the problem, the predicted survival of the patient after the illness, the pattern of the disease and work for curing the disease.

**Proposed Solution:** In this proposed system we are able to identify the patients with disease. Once any person gets kidney disease, they may suffer from the disease which may decrease their working capability as well as living quality. Our aim is to predict patients with chronic kidney failure (ckd) disease and patients who do not (not-ckd) suffer from the disease. So for that we are building a Machine Learning model to predict the compressive strength of concrete using IBM Watson AutoAI Machine Learning Service. The model is deployed on IBM cloud to get a scoring end point which can be used as web app building. We make use of the scoring end point to give user input values to the deployed model. The model prediction is then showcased on User Interface.