

# PROBLEM STATEMENT

## EARLY DETECTION OF CHRONIC KIDNEY DISEASE USING MACHINE LEARNING

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- Irregular lifestyle of current days leads to many disease chronic diseases. One of them being Chronic Kidney Disease(CKD), it has been of a growing concern, kidney is one of the most important organs in the body required for filtering blood, once a person has lost their kidneys, they could survive only for 18 days without their kidneys, it would take a fortune to just keep the person alive, with treatments like dialysis, transplant etc.
- 10% of the population worldwide is affected by chronic kidney disease (CKD), and millions die each year because they do not have access to affordable treatment.
- People usually don't realize that the medical tests we perform for various purposes can contain valuable information related to kidney disease. Subsequently, the attributes of various medical tests are examined to distinguish which attributes may contain useful information about the disease. The information, they say, helps us gauge the severity of the problem, and we use that information to build a machine learning model that predicts chronic kidney disease.
- Early detection of kidney disease can help in treatment which could save lives. Analyzing various medical tests, would give us an idea about which attributes help us distinguish the disease.
- The main aim of this project is to predict whether the patient have chronic kidney disease or not, in more accurate and faster way based on certain diagnostic measurements like Blood Pressure (Bp), Albumin(AI).