

## **PROBLEM STATEMENT**

**Chronic Kidney Disease (CKD)** is a serious medical condition that, if caught early enough, is curable. Most individuals are unaware that the various medical tests we undergo for various reasons may provide important information about kidney disorders. As a result, characteristics of numerous medical tests are examined to see which characteristics might contain useful information about the disease. According to the information, doing so enables us to assess the problem's severity, and we utilize this data to create a machine learning model that forecasts chronic kidney disease.

If chronic kidney disease is addressed early on, it may be cured. This project's primary goal is to more accurately and quickly identify whether a patient has chronic kidney disease using diagnostic data including **Blood Pressure (Bp), Albumin, and other parameters.**

<b>Who would face this kind of problem?</b>	Those with a history of kidney failure in their families, Diabetes, Heart Diseases, or High blood pressure
<b>What are the boundaries of the problem?</b>	Diagnosing kidney diseases via parameters like blood pressure and albumin
<b>What is this issue?</b>	Compromisation of kidney functions by a disease or condition, leading to its damage over time
<b>When does this issue occur?</b>	When a illness or sickness compromises kidney function, causing kidney damage to worsen over several months or years

<b>Where is this issue manifesting?</b>	The small blood veins in the kidneys might become strained by high blood pressure, thereby preventing normal functioning of the kidney. Blood glucose levels that are too high can harm the kidneys' small filters.
<b>Why is it necessary to fix the problem?</b>	The progression of chronic kidney disease to an advanced state may be slowed or terminated with early detection of the respective disease and appropriate treatment.