PROJECT OBJECTIVES

- Chronic Kidney disease (CKD) is one of the most critical health problems due to its increasing prevalence .

- We aim to test the ability of machine learning algorithms for the prediction of chronic kidney disease using the smallest subset of features.

- It is important to identify the early stage of CKD , so that necessary treatment can be provided to prevent or cure the disease.

- We use attributes of medical tests taken for different purposes that might contain useful information concerning kidney diseases to build the machine learning model that detects Chronic Kidney Disease.

- Several statistical tests have been done to remove redundant features such as the ANOVA test, the Pearson's correlation, and the Cramer's V test.

- CNN algorithm has been trained and tested for this project.

- We achieve an accuracy of 98.1% which can be game changing in the detection of Chronic Kidney Disease.