

**Project Design Phase-I**  
**Proposed Solution Template**

Date	19 September 2022
Team ID	PNT2022TMID22244
Project Name	Project – Early Detection of Chronic Kidney Disease using Machine Learning
Maximum Marks	2 Marks

**Proposed Solution Template:**

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Patient need to detect chronic kidney disease at early and accurately this leads to increase in rate of curable.
2.	Idea / Solution description	Aims to develop frame work to deliver the prediction of Chronic Kidney Disease (CKD) for a user using machine learning.
3.	Novelty / Uniqueness	The standard methods of data mining process are used for Data preparation and preprocessing . To predict the early onset of CKD, three machine learning techniques are used decision tree, Random Forest, and Support vector machines. Each algorithm's effectiveness is evaluated.
4.	Social Impact / Customer Satisfaction	Since CKD is detected at early stages ,there are high chances of curing the disease. This helps people those who are affected by Chronic Kidney Disease to get right treatment at right time.
5.	Business Model (Revenue Model)	This is a cost-effective model because the patient uses this model they don't have to spend maximum amount just for initial diagnosis.
6.	Scalability of the Solution	This model can be expanded to include more attribute for more accurate detection. Testing and Training the model even more attributes will increase the efficiency further.