

**Project Design Phase-1**  
**Proposed Solution**

Date	27 September 2022
Team ID	PNT2022TMID45417
Project Name	Early prediction of chronic kidney disease
Maximum Marks	2

**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)	<ol style="list-style-type: none"> <li>Chronic kidney disease, also known as chronic renal disease or <b>CKD</b>, is a condition where there is a gradual loss of kidney function over a time.</li> <li>Have to predict it earlier as possible.</li> </ol>
2.	Idea / Solution description	The solution is to predict the CKD using the machine learning algorithm and applied data science
3.	Novelty / Uniqueness	<ol style="list-style-type: none"> <li>The major problem with the prediction of any disease is it can't be predicted in the earlier stage</li> <li>The uniqueness in our project is that we are going to predicted CKD in earlier stage by using algorithms . KNN CLASSIFIERS &amp; LOGISTIC REGRESSION.</li> </ol>
4.	Social Impact / Customer Satisfaction	<ol style="list-style-type: none"> <li>By using our prediction model, it is easier to predict the CKD and diagnosis it in its starting stage .</li> <li>Using this we can reduce the CKD ,in our population there are up to 800 million people are affected by CKD by using this ML model we can reduce the CKD affected percentage.</li> </ol>
5.	Business Model (Revenue Model)	KNN CLASSIFIERS & LOGISTIC REGRESSION are cost effective and accurate ML algorithm to predict CKD .so, that it is also beneficial in revenue point of view.
6.	Scalability of the Solution	ML applications that can handle any amount of data and perform many computations in a cost-effective and time-saving way to instantly serve millions of users residing at global locations

