Project Design Phase 1 Proposed Solution Document

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| Date | 6 October, 2022 |
| Team ID | PNT2022TMID33248 |
| Project Name | Early Detection Of Chronic Kidney Disease Using Machine Learning |
| Maximum Marks | 2 Marks |

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| S. No | Parameter | Description |
| 1. | Problem Statement (Problem to be solved) | CKD is one of the most critical illness nowadays and proper diagnosis is required as soon as possible. |
| 2. | Idea/Solution description | To provide a prediction algorithm to predict Chronic Kidney Disorders at an early stage. The dataset shows input parameters collected from the CKD patients and the models are trained  and validated for the given input parameters.. |
| 3. | Novelty/Uniqueness | To diagnose CKD, decision tree, random forest, and support vector machine learning models are built. |
| 4. | Social Impact/Customer Satisfaction | It prevents the kidney failure by diagnosing it in the early stages which requires continuous dialysis or kidney transplantation to maintain a normal life. Early prediction would reduce the risks and improves the life expectancy. |
| 5. | Business Model (Revenue Model) | This product can be utilized by patients and also people who wants to know about their kidney health. It is productive and helpful for patients by rescuing them from kidney failure.  . |
| 6. | Scalability of the Solution | To execute this technique we need to develop a Web Application which helps in early prediction of the disease by using various data given by the people |