

## Project Design Phase-I

### Solution Architecture

Date	15 October 2022
Team ID	PNT2022TMI01511
Project Name	Early Detection of Chronic Kidney Disease using Machine Learning
Maximum Marks	4 Marks

#### Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. A solution architecture (SA) is an architectural description of a specific solution.

- Dataset - Data is required to examine the features and make predictions.
- Preprocessing Techniques - To deal with missing data and standardise the data so that the model can process it
- Feature Selection - Splitting the data into independent and dependent variables and removing irrelevant characteristics features via dimensionality reduction or removing categorical variables of no significance
- Model creation and evaluation - The model is built using different ML algorithms with the goal of increasing accuracy, and evaluation is repeated to maintain accuracy.
- Deploying model - model is used to enable consumer access to the service via the internet.
- User/customer - important for accessing the resource or service

#### Solution Architecture Diagram:

