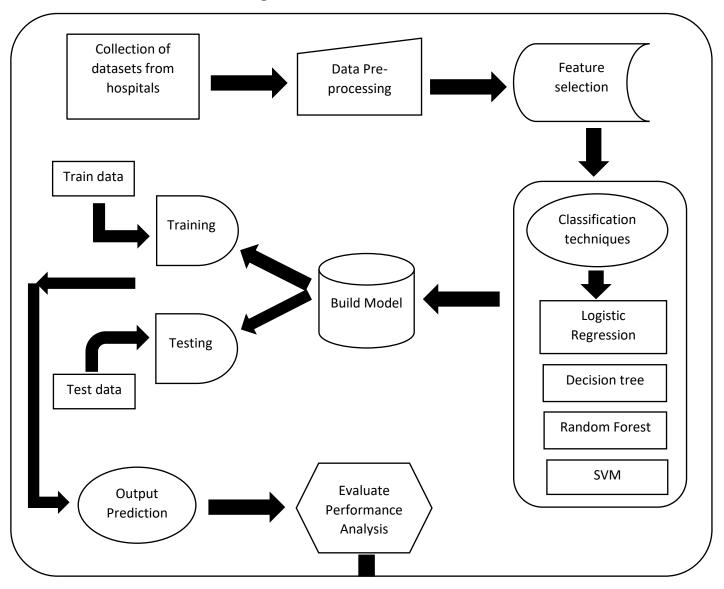
Project Design Phase-I Solution Architecture

Date	19 September 2022
Team ID	PNT2022TMID04324
Project Name	Project - Early Detection of Chronic Kidney
	Disease using Machine Learning
Maximum Marks	4 Marks

Solution Architecture:

- > Collecting the datasets of various medical tests done for patients from the hospitals
- ➤ Data Pre-processing Handling the missing data, data cleaning etc.
- Feature selection Using only the most important data and removing the unwanted features by performing dimensionality reduction
- > Applying Classification techniques like random forest classifiers and decision tree algorithms
- ➤ Model building Create the ML model and doing testing and training on the model by providing test and train data respectively.
- Predict the output and evaluating the performance of the model.
- > Deploying the model with UI with all required features
- Providing the input data and it predicts the result

Solution Architecture Diagram:



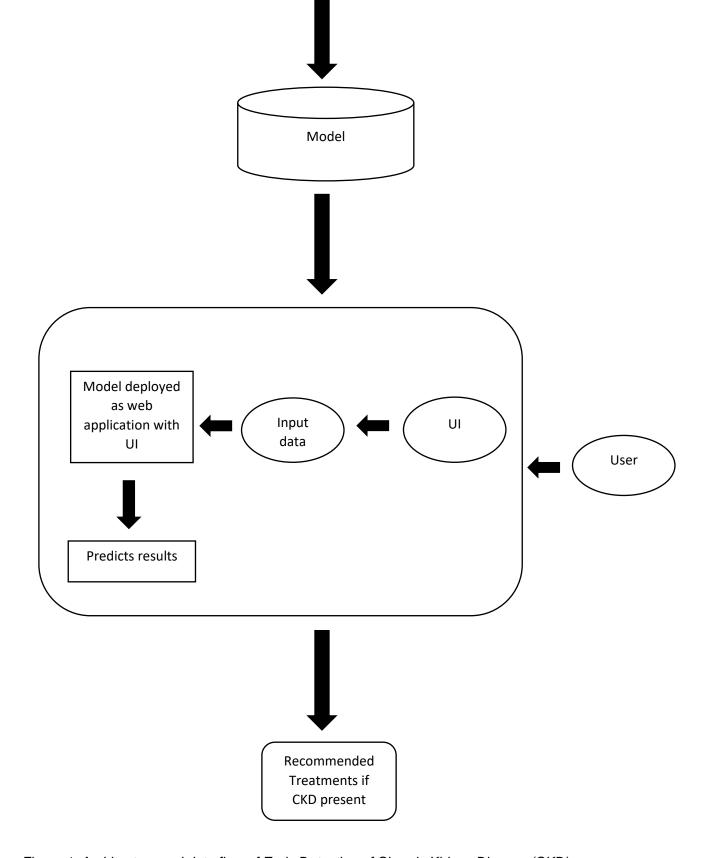


Figure 1: Architecture and data flow of Early Detection of Chronic Kidney Disease (CKD)