

## Model Development Phase Template

Date	15 March 2024
Team ID	LTVIP2024TMID24776
Project Title	Early Prediction Of Chronic Kidney Disease
Maximum Marks	5 Marks

## Feature Selection Report Template

In the forthcoming update, each feature will be accompanied by a brief description. Users will indicate whether it's selected or not, providing reasoning for their decision. This process will streamline decision-making and enhance transparency in feature selection.

Feature	Description	Selected (Yes/No)	Reasoning
Age	The age of the individual in years	Yes	Significant correlation with kidney health; older age is a known risk factor for CKD.
Blood Pressure	Systolic and diastolic blood pressure readings	Yes	High blood pressure is a critical indicator of kidney disease; essential for predictive modeling.
Blood Sugar Level	Fasting glucose level	Yes	Elevated blood sugar is a major risk factor for kidney disease; relevant for classification.

Smoking Status	Indicates whether individual smokes	Yes	Smoking is a known risk factor for kidney disease; important for lifestyle impact analysis.
Protein in Urine	Presence of protein in urine (yes/no)	Yes	Directly indicates kidney function; a key feature in CKD diagnosis.
Exercise Frequency	Frequency of exercise per week	No	While important for general health, it showed weak correlation with CKD in preliminary analysis.
Family History of CKD	Indicates if there is a family history of kidney disease	Yes	Family history is a strong predictor of CKD; relevant for assessing genetic predisposition.
Ethnicity	Ethnic background of the individual	Yes	Certain ethnicities are at higher risk for CKD; useful for demographic analysis.