Model Development Phase Template

Date	27 June 2025
Team ID	SWTID1749634408
Project Title	Early Prediction for Chronic Kidney Disease Detection: A Progressive Approach to Health Management
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
Patient_ID	Unique identifier for each patient	No	Used for identification, not useful for prediction.
Age	Patient's age	Yes	Age is a major risk factor in CKD progression.
Blood Pressure	Diastolic blood pressure measurement	Yes	High blood pressure is strongly linked to kidney damage.
Specific Gravity	Urine concentration indicator	Yes	Helps detect kidney function abnormalities.

Albumin	Protein level in Urine	Yes	Elevated albumin levels indicate kidney damage.
Sugar	Sugar level in Patient	Yes	Indicates potential diabetes, a major CKD risk factor.
Red Blood Cells	Presence of RBCs in Blood	Yes	Abnormal levels may indicate kidney inflammation or damage.
Pus Cell Count	Number of pus cells per high power field	Yes	Can indicate infections affecting the kidneys.
Pus Cell Clumps	Presence of clumped pus cells in urine	Yes	Suggests urinary tract infections or pyelonephritis.
Blood Glucose Random	Random blood glucose levels	Yes	Key indicator of diabetes, which is a CKD risk factor.
Blood_Urea	Urea levels in the blood	Yes	Elevated levels indicate reduced kidney filtration efficiency.