Model Development Phase Template

Date	12 July 2024
Team ID	SWTID1720083491
Project Title	Early Prediction of Chronic Kidney Disease Using Machine Learning
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
ID	Unique identifier for the patient	No	For predicting kidney disease patient's id is not required.
Age	Patient's Age	Yes	Age plays a major role for predicting kidney disease.
Blood pres sure	Patient's Blood pressure level	Yes	For predicting kidney disease patient's blood pressure is required.
Specific gr avity	Patient's Specific gravity level	Yes	For predicting kidney disease patient's Specific gravity is required.

Albumin	Patient's Albumin level	Yes	For predicting kidney disease patient's albumin level is required.
Sugar	Patient's Sugar level	Yes	For predicting kidney disease patient's sugar level is required.
Red blood cell	Patient's Red blood cell condition	Yes	For predicting kidney disease patient's Red blood cell condition is required.
Pus cell	Patient's Pus cell level	Yes	For predicting kidney disease patient's Pus cell level is required.
Pus cell clumps	Patient's Pus cell clumps level	Yes	For predicting kidney disease patient's Pus cell clumps level is required.
Bacteria	Patient's Bacteria content	Yes	For predicting kidney disease patient's bacteria content is required.
Blood glucose random	Patient's Blood glucose random level	Yes	For predicting kidney disease patient's blood glucose level is required.
Blood urea	Patient's Blood urea level	Yes	For predicting kidney disease patient's blood urea level is required.
Serum creatinine	Patient's Serum creatinine level	Yes	For predicting kidney disease patient's Serum creatine level is required.
Sodium	Patient's Sodium level	Yes	For predicting kidney disease patient's sodium level is required.

Potassium	Patient's Potassium level	Yes	For predicting kidney disease patient's potassium level is required.
Hemoglobin	Patient's Hemoglobin level	Yes	For predicting kidney disease patient's hemoglobin level is required.
Packed cell volume	Patient's Packed cell volume level	Yes	For predicting kidney disease patient's packed cell volume level is required.
White blood cell count	Patient's White blood cells count	Yes	For predicting kidney disease patient's white blood cell count is required.
Red blood cell count	Patient's Red blood cell count	Yes	For predicting kidney disease patient's red blood cell count is required.
Hypertension	Patient's Hypertension level	Yes	For predicting kidney disease patient's hypertension level is required.
Diabetesmellitus	Patient's Diabetesmellitus level	Yes	For predicting kidney disease patient's diabetesmellitus level is required.
Coronary artery disease	Patient's Coronary artery disease condition	Yes	For predicting kidney disease patient's coronary artery disease condition is required.
Appetite	Patient's Appetite condition	Yes	For predicting kidney disease patient's appetite condition is required.

Pedal edema	Patient's Pedal edema condition	Yes	For predicting kidney disease patient's pedal edema condition is required.
Anemia	Patient's Anemia condition	Yes	For predicting kidney disease patient's anemia condition is required.
Class	Classification outcome	Yes	The target variable for predictive modeling–is essential for the project's goal.