Model Development Phase

Date	10 July 2024
Team ID	SWTID1721205662
Project Title	Early Prediction of Chronic Kidney Disease Using Machine Learning
Maximum Marks	6 Marks

Model Selection Report

In the forthcoming Model Selection Report, various models will be outlined, detailing their descriptions, hyperparameters, and performance metrics, including Accuracy or F1 Score. This comprehensive report will provide insights into the chosen models and their effectiveness.

Model Selection Report:

Model	Description	Hyperparameters	Performance Metric (e.g., Accuracy, F1 Score)
Decision tree Classifier	easily interpretable tree-like model for classification, highlights important features and provides clear, visual insights into the decision-making process for diagnosing chronic kidney disease.	--	Accuracy score=100%

Logistic Regression	statistical model used for binary classification, predicts the probability of a binary outcome based on input features. Simple and effective in predicting chronic kidney diseases.	--	Accuracy =94.1%
KNN Classifier	Classifies based on nearest neighbors; adapts well to data patterns, effective for local variations in chronic disease classification criteria.	--	Accuracy=67.5%