Model Development Phase Template

Date	10 July 2024
Team ID	SWTID1720174640
Project Title	Early Prediction of Chronic Kidney Disease
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)
Logistic Regression	Logistic Regression is a popular and widely used statistical model for binary classification tasks. Despite its name, it's a classification algorithm rather than a regression one.	C,penalty,solver	Accuracy is : 0.975 Precision is : 0.6601307189542484 Recall is : 0.6486364660806851 F1 socre is 0.6542827657378741

Support Vector Classifier (SVC)	The model being tuned in this GridSearchCV process is a Support Vector Machine (SVM) classifier, as indicated by the parameters used (C, kernel, and gamma). SVM is a supervised learning algorithm that is widely used for classification tasks. It works by finding the optimal hyperplane that separates data into different classes with the maximum margin.	C, gamma, kernel	Accuracy is: 0.975 Precision is : 0.6601307189542484 Recall is: 0.6486364660806851 F1 score is 0.654282765737874