Project Development Phase Model Performance Test

Date	10 November 2022	
Team ID	PNT2022TMID36039	
Project Name	Early Detection of Chronic Kidney Disease using Machine Learning	
Maximum Marks	10 Marks	

Model Performance Testing:

S.No.	Metrics of different classification models	Values	Screenshot
1.	Gradient Boost Classifier	Confusion Matrix	Confusion Matrix :- [[40 1] [0 79]]
		Accuracy Score	Test Accuracy of Gradient Boosting Classifier is 99.16666666666667
		Classification Report	Classification Report :-

2.	KNN Classifier	Confusion Matrix	Confusion Matrix :- [[40 1] [3 76]]
		Accuracy Score	Test Accuracy of KNN is 96.6666666666666
		Classification Report	Classification Report :- precision recall f1-score support
			0 0.93 0.98 0.95 41 1 0.99 0.96 0.97 79
			accuracy 0.97 120 macro avg 0.96 0.97 0.96 120 weighted avg 0.97 0.97 120
3.	Decision Tree Classifier	Confusion Matrix	Confusion Matrix :- [[40 1] [1 78]]
		Accuracy Score	Test Accuracy of Decision Tree Classifier is 98.3333333333333
		Classification Report	Classification Report :- precision recall f1-score support
			0 0.98 0.98 0.98 41 1 0.99 0.99 0.99 79
			accuracy 0.98 120 macro avg 0.98 0.98 120 weighted avg 0.98 0.98 0.98 120

4.	Extra Tree Classifier	Confusion Matrix	Confusion Matrix :- [[40 1] [0 79]]
		Accuracy Score	Test Accuracy of Extra Trees Classifier is 99.16666666666667
		Classification Report	Classification Report :- precision recall f1-score support
			0 1.00 0.98 0.99 41 1 0.99 1.00 0.99 79 accuracy 0.99 120
			macro avg 0.99 0.99 0.99 120 weighted avg 0.99 0.99 0.99 120
5.	Cat Boost Classifier	Confusion Matrix	Confusion Matrix :- [[40 1] [1 78]]
		Accuracy Score	Test Accuracy of Cat Boost Classifier is 98.333333333333333
		Classification Report	Classification Report :- precision recall f1-score support
			0 0.98 0.98 0.98 41 1 0.99 0.99 79 accuracy 0.98 120
			macro avg 0.98 0.98 120 weighted avg 0.98 0.98 0.98 120