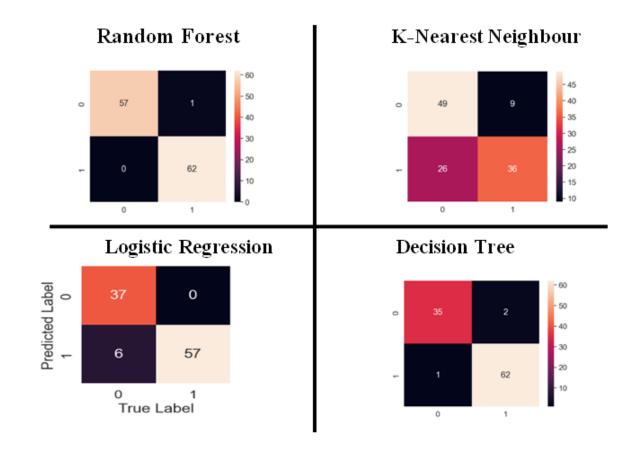
Project Development Phase Model Performance Test

Date	10 November 2022	
Team ID	PNT2022TMID22283	
Project Name	Early Detection of Chronic Kidney disease using Machine Learning	
Maximum Marks	10 Marks	

Model Performance Testing:

Project team shall fill the following information in model performance testing template.

Confusion matrix:



S.No.	Parameter	Values	Screenshot		
1.	Metrics	Regression Model: MAE - , MSE - , RMSE - , R2 score -	Random forest: Precision: 96.88 Accuracy: 98.39 Recall: 100.0 Fiscore: 98.43		
		Classification Model: Confusion Matrix - , Accuray Score- & Classification Report -	0 1.00 0.07 0.08 58 0.07 1.00 0.00 0.2 ***Curracy 0.00 0.00 120 ***Weighted avg 0.98 0.08 0.08 120 Confidence of the		
			## K-Nearest Neighbour: Precision: 80.0		
			0 1.00 0.07 0.08 58 0.09 0.09 0.2 0.09 0.2 0.09 0.2 0.09 0.2 0.09 0.2 0.09 0.20 0.2		
			Classification Report: precision recall f1-score support 0 0.88 0.95 0.91 38 1 0.97 0.92 0.94 02 accuracy 0.93 100 macro avg 0.92 0.93 0.93 100 weighted avg 0.93 0.93 100 Confusion Matrix: [[36 2] [5 57]]		

2.	Tune the Model	Hyperparameter Tuning -	In [8	from akkern.nobel_melection import GridfmurchCT import range on ep
		Validation Method -		max festiven_rungs = rp.sizeop(1,5,11) _ resilizeor_rungs = rp.sizeop(1,7,10,1) param_grid = dictions_festiven=max_festiven_rungs, n_estimators=q.estimators_rungs)
				rf + RedenfrometCannifer grid = Griddeneth()entimaturef, paran grid-paran grid, or 5)
			In [13	grid-filt(Linnis, Linnis)
				Guillaurich (1974), ettig generali. etilaurich (1974), ettig generali.
				t (grid best parms_, grid best_score_) The best parmseters are ('max features' 1 i, 's estimators': 128) with a score of 0.58