XGBoost

Stages		Metrics			
		Accuracy	Precision	Recall	F1 Score
	Research Paper Metrics	89.1%			
	Research Paper Metrics	96%		0.95	0.96
Base Model	w/o Cross Validation	89.73%			
	5-fold Cross Validation	88.08%	88.47%	87.70%	88.06%
Hyperparameter Tuning	GridSearchCV (initial Run w/ randomly chosen parameter values)	73.72%			
	GridSearchCV (w/ updated parameter values selected from the 1st run)	76.20%			
	Random_search (with n_iter= 50)	with cv = 10 85% with cv= 20 90% with cv= 50 92%			