Classification results

Family	Method	Accuracy	Hyper Parameter Tuning	Precision	Recall	F1-Score
SVM	SVM (rbf)	0.8467	'C': 10, 'kernel': 'rbf'	0.8722	0.8798	0.8585
	SVM (linear)	0.8474	'C': 10, 'kernel': 'rbf'			
	Logistic Regression	0.463454	'C': 1	0.7054	0.5470	0.3846
Naive Bayes	Gaussian Naive Bayes	0.82999		0.8738	0.9982	0.9979
Nearest neighbour	KNN	0.9849	N_neighbors : 2	0.9876	0.9880	0.9878
Boosting	Gradient Boosting Classifier (Default)	0.9976	'n_estimators': 100	0.9974	0.9976	0.9975
	Gradient Boosting Classifier	0.9986	'n_estimators': 250	0.9982	0.9983	0.9983
	AdaBoost Classifier (Default)	0.9973	'n_estimators': 50	0.9965	0.9966	0.9966
	AdaBoost Classifier	0.9985	'n_estimators': 300	0.9980	0.9976	0.9978
	eXtreme Gradient Boosting Classifier	0.9985		0.9984	0.9985	0.9984

Bagging	Decision Tree	0.9964	'n_estimators': 10	0.9987	0.9987	0.9987
	KNN	0.9867	'n_estimators': 10, ‘n_neighbors’: 2	0.9873	0.9859	0.9866
	Logistic_Regression	0.4578	'n_estimators ' : 10 ‘Solver’ : 'liblinear', ‘multi_class : 'auto', C=1	0.6983	0.5439	0.3804
	Voting Classifier	0.9912	estimators = [('lr',lr), ('dt',dt), ('knn',knn)], voting = 'hard'	0.9920	0.9942	0.9931
	Random Forest	0.9977	'n_estimators': 10	0.9975	0.9983	0.9979
Decision Tree	Decision Tree (Default)	0.9953	'criterion ': 'gini'	0.9976	0.9971	0.9973
	Decision Tree	0.9958	'criterion ' : 'entropy', 'max_depth': 10	0.9974	0.9973	0.9973
	Decision Tree Regressor (Default)	0.9813		0.9974	0.9970	0.9972
Neural Network	Multi-layer Perceptron (MLP),	0.8184		0.8563	0.8341	0.7673
	LSTM	0.9884		0.9953	0.9852	0.7462
	CNN	0.9723		0.9762	0.9772	0.7462
Discrimination Analysis	Linear Discriminant Analysis	0.9680		0.9711	0.9617	0.9658
	Quadratic Discriminant Analysis	0.9800		0.9788	0.9836	0.9810