

SR No	Model	Recall	Accuracy	Area under Roc curve
1	Logistic Regression	0.6262	0.9989	0.8129
2	K-Nearest neighbour	0.7757	0.9994	0.8878
3	Decision Tree	0.6916	0.9991	0.8456
4	Bagging ensemble	0.8037	0.9995	0.9018
5	Random Forest	0.785	0.9995	0.8925
6	XGBoost	0.7757	0.9995	0.8878
7	Support vector Classifier	0.7477	0.9989	0.8735
8	Local Outlier Factor	0.0093	0.9964	0.5038
9	Isolation Forest	0.3178	0.9975	0.6583

Classification report

Logistic regression

	precision	recall	f1-score	support
0	1.00	1.00	1.00	56855
1	0.74	0.63	0.68	107
accuracy			1.00	56962
macro avg	0.87	0.81	0.84	56962
weighted avg	1.00	1.00	1.00	56962

K-Nearest neighbour

	precision	recall	f1-score	support
0	1.00	1.00	1.00	56855
1	0.89	0.78	0.83	107
accuracy			1.00	56962
macro avg	0.95	0.89	0.91	56962
weighted avg	1.00	1.00	1.00	56962

Decision Tree

	precision	recall	f1-score	support
0	1.00	1.00	1.00	56855
1	0.80	0.69	0.74	107
accuracy			1.00	56962
macro avg	0.90	0.85	0.87	56962
weighted avg	1.00	1.00	1.00	56962

Bagging ensemble

	precision	recall	f1-score	support
0	1.00	1.00	1.00	56855
1	0.95	0.80	0.87	107
accuracy			1.00	56962
macro avg	0.97	0.90	0.93	56962
weighted avg	1.00	1.00	1.00	56962

Random Forest

	precision	recall	f1-score	support
0	1.00	1.00	1.00	56855
1	0.95	0.79	0.86	107
accuracy			1.00	56962
macro avg	0.98	0.89	0.93	56962
weighted avg	1.00	1.00	1.00	56962

XGBoost

	precision	recall	f1-score	support
0	1.00	1.00	1.00	56855
1	0.97	0.78	0.86	107
accuracy			1.00	56962
macro avg	0.98	0.89	0.93	56962
weighted avg	1.00	1.00	1.00	56962

Support vector Classifier

	precision	recall	f1-score	support
0	0.95	0.00	0.00	56855
1	0.00	0.99	0.00	107
accuracy			0.00	56962
macro avg	0.48	0.50	0.00	56962
weighted avg	0.95	0.00	0.00	56962

Isolation Forest

	precision	recall	f1-score	support
0	1.00	1.00	1.00	56855
1	0.33	0.32	0.33	107
accuracy			1.00	56962
macro avg	0.67	0.66	0.66	56962
weighted avg	1.00	1.00	1.00	56962

Local Outlier Factor

precision	recall	f1-score	support	
0	1.00	1.00	1.00	56855
1	0.01	0.01	0.01	107
accuracy			1.00	56962
macro avg	0.50	0.50	0.50	56962
weighted avg	1.00	1.00	1.00	56962