



Fraudulent Transaction Detector

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creditcard.csv 143.8MB



Raw Data Preview

	Time	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12	V13	V14	V15	V16	V17	V18	V19	V20	V21
0	0	-1.3598	-0.0728	2.5363	1.3782	-0.3383	0.4624	0.2396	0.0987	0.3638	0.0908	-0.5516	-0.6178	-0.9914	-0.3112	1.4682	-0.4704	0.208	0.0258	0.404	0.2514	-0.0183
1	0	1.1919	0.2662	0.1665	0.4482	0.06	-0.0824	-0.0788	0.0851	-0.2554	-0.167	1.6127	1.0652	0.4891	-0.1438	0.6356	0.4639	-0.1148	-0.1834	-0.1458	-0.0691	-0.2258
2	1	-1.3584	-1.3402	1.7732	0.3798	-0.5032	1.8005	0.7915	0.2477	-1.5147	0.2076	0.6245	0.0661	0.7173	-0.1659	2.3459	-2.8901	1.11	-0.1214	-2.2619	0.525	0.248
3	1	-0.9663	-0.1852	1.793	-0.8633	-0.0103	1.2472	0.2376	0.3774	-1.387	-0.055	-0.2265	0.1782	0.5078	-0.2879	-0.6314	-1.0596	-0.6841	1.9658	-1.2326	-0.208	-0.1083
4	2	-1.1582	0.8777	1.5487	0.403	-0.4072	0.0959	0.5929	-0.2705	0.8177	0.7531	-0.8228	0.5382	1.3459	-1.1197	0.1751	-0.4514	-0.237	-0.0382	0.8035	0.4085	-0.0094
5	2	-0.426	0.9605	1.1411	-0.1683	0.421	-0.0297	0.4762	0.2603	-0.5687	-0.3714	1.3413	0.3599	-0.3581	-0.1371	0.5176	0.4017	-0.0581	0.0687	-0.0332	0.085	-0.2083
6	4	1.2297	0.141	0.0454	1.2026	0.1919	0.2727	-0.0052	0.0812	0.465	-0.0993	-1.4169	-0.1538	-0.7511	0.1674	0.0501	-0.4436	0.0028	-0.612	-0.0456	-0.2196	-0.1677
7	7	-0.6443	1.418	1.0744	-0.4922	0.9489	0.4281	1.1206	-3.8079	0.6154	1.2494	-0.6195	0.2915	1.758	-1.3239	0.6861	-0.0761	-1.2221	-0.3582	0.3245	-0.1567	1.9435
8	7	-0.8943	0.2862	-0.1132	-0.2715	2.6696	3.7218	0.3701	0.8511	-0.392	-0.4104	-0.7051	-0.1105	-0.2863	0.0744	-0.3288	-0.2101	-0.4998	0.1188	0.5703	0.0527	-0.0734
9	9	-0.3383	1.1196	1.0444	-0.2222	0.4994	-0.2468	0.6516	0.0695	-0.7367	-0.3668	1.0176	0.8364	1.0068	-0.4435	0.1502	0.7395	-0.541	0.4767	0.4518	0.2037	-0.2469

Model Selection

☒ Auto Select Best Model

☐ Manual Model Selection



Auto-selected model: XGBoost



Run Model



Model trained successfully!

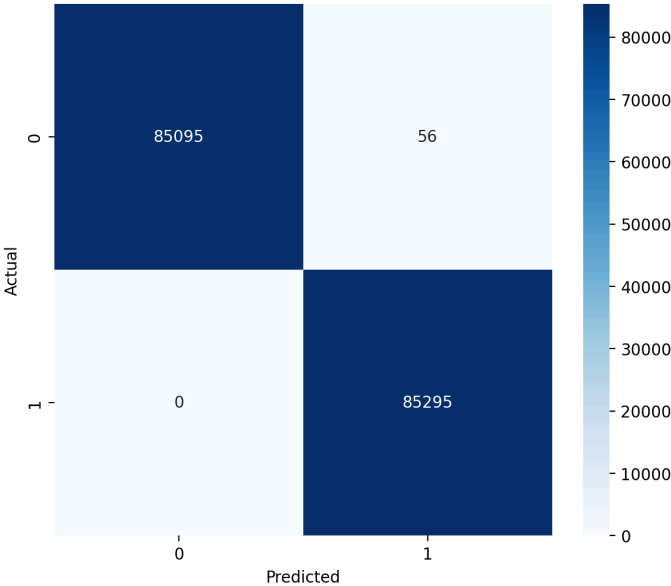


Evaluation Metrics

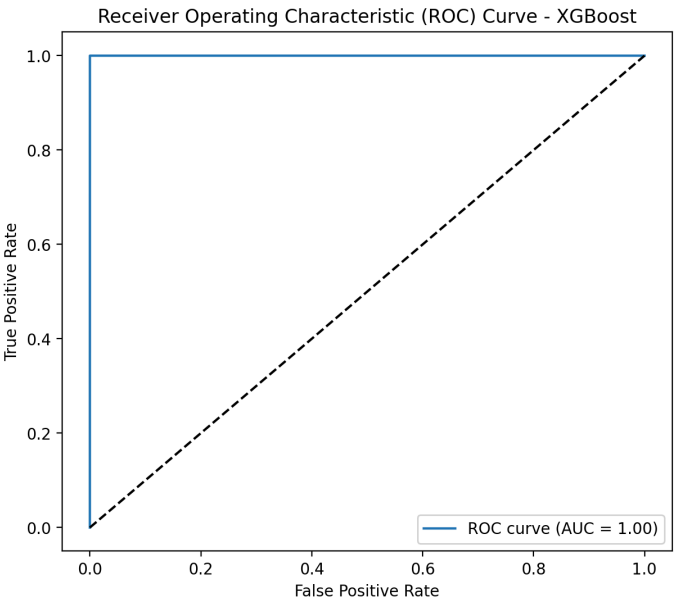
	Term	Non-fraud	Fraud
0	Precision	1.0000	0.9993
1	Recall	0.9993	1.0000
2	F1-Score	0.9997	0.9997



Confusion Matrix



ROC Curve



Fraudulent Transactions List

	Amount	V1	V2	V3	Class
14	-0.2934	1.0239	2.0015	-4.7698	
15	-0.2934	-1.5855	3.2616	-4.1374	
16	-0.2934	-1.7832	3.4028	-3.8227	
17	-0.2934	0.8573	4.0939	-7.4239	
18	-0.2934	-1.8133	4.9179	-5.9261	
19	-0.2934	-0.2515	4.3135	-6.8914	
20	-0.2934	0.3146	2.6607	-5.92	
21	-0.2934	0.4474	2.482	-5.6608	
22	-0.2934	-2.1699	3.6397	-4.5085	
23	-0.2934	-1.8638	3.4426	-4.4683	
24	-0.292	-4.6172	1.6957	-3.1144	

Detected 674 Fraudulent Transactions

Summary of Analysis

Fraud Detection Summary

Detected Fraudulent Transactions: 674

Time Taken for Training & Prediction: 00h 07m 01s

Selected Model: XGBoost

Model auto-selected based on dataset characteristics: Selected due to highly imbalanced data or large dataset size.

	Metric	Value
0	Accuracy	99.97%
1	Non-Fraudulent (0) Precision	1.00
2	Non-Fraudulent (0) Recall	1.00
3	Non-Fraudulent (0) F1-Score	1.00
4	Fraudulent (1) Precision	1.00
5	Fraudulent (1) Recall	1.00
6	Fraudulent (1) F1-Score	1.00

Predicted Non-Fraudulent (0): 49.92%

Predicted Fraudulent (1): 50.08%

Download Results as CSV