Test and Score Sun Apr 20 25, 13:33:47

Settings

Sampling type: Stratified 5-fold Cross validation **Target class:** 1

Scores

Model	AUC	CA	F1	Prec	Recall	MCC	
kNN	0.905	0.994	0.663	0.855	0.541	0.678	
Logistic Regression	0.977	0.995	0.694	0.938	0.550	0.716	
Naive Bayes	0.942	0.989	0.174	0.414	0.110	0.209	
Random Forest	0.980	0.998	0.893	0.948	0.844	0.894	

Precision is greater than .90 and Recall is greater than .80, so overall, it can be assessed that the Random Forest is a good model.

Predictions Sun Apr 20 25, 13:44:16

Info

Data: <u>KeepSafe NewData</u>: 999 instances, 9 variables Features: 7 (1 categorical, 6 numeric) (no missing values) Metas: 2 string

Model: 1 model

• Random Forest

Data & Predictions

	newbalanceDest 247596.18 713749.09 254832.45 10600000.00 3427732.90 277150.70 5073070.11 0.00 10500000.00 55655.27 40183.38 38547.13 64698.21 0.00 0.00 1996702.18 255147.56
136 Ca36057101 C705662390 31008266 CASH_OUT 25737.51 235703.25 0.00 456511.57 165 1	713749.09 254832.45 10600000.00 3427732.90 277150.70 5073070.11 0.00 10500000.00 55655.27 40183.38 38547.13 64698.21 0.00 0.00 1996702.18 255147.56
165 1	254832.45 10600000.00 3427732.90 277150.70 5073070.11 0.00 10500000.00 55655.27 40183.38 38547.13 64698.21 0.00 0.00 1996702.18 255147.56
339 C34714860 C1762242916 3108259 CASH_OUT 242597.00 222386.63 0.00 103000000.00 10300000000000000000000000000000000	10600000.00 3427732.90 277150.70 5073070.11 0.00 10500000.00 55655.27 40183.38 38547.13 64698.21 0.00 0.00 1996702.18 255147.56
1	3427732.90 277150.70 5073070.11 0.00 10500000.00 55655.27 40183.38 38547.13 64698.21 0.00 0.00 1996702.18 255147.56
1	277150.70 5073070.11 0.00 10500000.00 55655.27 40183.38 38547.13 64698.21 0.00 0.00 1996702.18 255147.56
1	5073070.11 0.00 10500000.00 55655.27 40183.38 38547.13 64698.21 0.00 0.00 1996702.18 255147.56
549 1 C1726326177 C1540448785 13108249 TRANSFER 295664.18 295664.18 0.00 0.00 550 1 C1446413189 C185805228 13108260 CASH_OUT 295664.18 295664.18 0.00 10200000.00 657 1 C634243336 C1368075901 13108260 CASH_OUT 4956527 3441.00 0.00 0.00 791 1 C142868932 C1467556774 13108257 CASH_OUT 38547.13 42287.00 3819.87 0.00 965 1 C931039094 C1658061985 13108245 CASH_OUT 36698.21 31460.00 0.00 0.00 1 0 C1579486558 M1850653167 13108245 CASH_OUT 24550.47 31105.00 0.00 0.00 3 0 C141809658 C46929476 13108242 PAYMENT 3818.44 122357.12 118538.67 0.00 3 0 C23667002 C613340514 13108245 PAYMENT 25619.99	0.00 10500000.00 55655.27 40183.38 38547.13 64698.21 0.00 0.00 1996702.18 255147.56
550 1 C1446413189 C185805228 13108250 CASH_OUT 295664.18 295664.18 0.00 1020000.00 560 1 C634243333 C1368075901 13108260 CASH_OUT 5555.27 39441.00 0.00 0.00 657 1 C2134583132 C1467566774 13108251 CASH_OUT 40183.38 33359.00 0.00 0.00 791 1 C1142866956 C1237617997 13108251 CASH_OUT 38547.13 42367.00 3819.87 0.00 965 1 C930139994 C1658061985 3108241 CASH_OUT 6496.21 31460.00 0.00 0.00 2 0 C1373443569 M2118806160 13108241 CASH_OUT 25997.89 2181197.72 65521.83 0.00 3 0 C141809658 C469298476 13108244 CASH_OUT 25997.89 216119.72 65521.83 104549.67 5 0 C706898907 M118590181 13108244 CASH_OUT 126154<	10500000.00 55655.27 40183.38 38547.13 64698.21 0.00 0.00 1996702.18 255147.56
560 1 C634243336 C1368075901 13108260 CASH_OUT 55655.27 39441.00 0.00 0.00 657 1 C2134583132 C1467556774 13108257 CASH_OUT 40183.38 33359.00 0.00 0.00 791 1 C1142866956 C1237617997 13108251 CASH_OUT 38547.13 32367.00 3819.87 0.00 965 1 C931039094 C1658061985 13108245 CASH_OUT 64698.21 31460.00 0.00 0.00 2 0 C1579486558 M1850653167 13108241 PAYMENT 42650.47 31125.00 0.00 0.00 3 0 C141806658 M2118806160 13108242 PAYMENT 42650.47 31125.00 0.00 1744702.85 4 0 C325687002 C613840514 13108244 CASH_OUT 150597.89 216119.72 65521.83 104549.67 5 0 C706898907 M118590181 13108245 PAYMENT 1216.54	55655.27 40183.38 38547.13 64698.21 0.00 0.00 1996702.18 255147.56
C2134583132	40183.38 38547.13 64698.21 0.00 0.00 1996702.18 255147.56
791 1 C1142866956 C1237617997 13108251 CASH_OUT 38547.13 42367.00 3819.87 0.00 965 1 C931039094 C1658061985 13108245 CASH_OUT 64698.21 31460.00 0.00 0.00 1 0 C1579486558 M1850653167 13108241 PAYMENT 42650.47 31125.00 0.00 0.00 2 0 C1373443569 M2118806160 13108242 PAYMENT 3818.44 122357.12 118536.67 0.00 3 0 C141809658 C469298476 13108244 CASH_OUT 251999.33 118538.67 0.00 1744702.85 4 0 C325687002 C613840514 13108244 CASH_OUT 150997.89 216119.72 65521.83 104549.67 6 0 C290148658 C104317418 13108246 CASH_OUT 325970.44 15591.00 0.00 12225.22 8 0 C2005802222 C994651164 13108248 CASH_OUT 325970.4	38547.13 64698.21 0.00 0.00 1996702.18 255147.56
P865 1	64698.21 0.00 0.00 1996702.18 255147.56
1 0 C1579486558 M1850653167 13108241 PAYMENT 42650.47 31125.00 0.00 0.00 2 0 C1373443569 M2118806160 13108242 PAYMENT 3818.44 122357.12 118538.67 0.00 3 0 C141809658 C469298476 13108244 CASH_OUT 150597.89 216119.72 65521.83 104549.67 5 0 C706898907 M118590181 13108245 PAYMENT 12161.54 65521.83 53360.29 0.00 6 0 C290148858 C1043171418 13108246 CASH_OUT 35234.62 31389.00 89603.62 284871.74 7 0 C1313589839 C1494580010 13108246 CASH_OUT 32590.42 33189.00 89603.62 284871.74 7 0 C2033217368 C1379050026 13108249 CASH_OUT 32590.42 33881.00 295942.02 0.00 10 0 C293775891 M667226543 13108250 PAYMENT	0.00 0.00 1996702.18 255147.56
2 0 C1373443569 M2118806160 13108242 PAYMENT 3818.44 122357.12 118538.67 0.00 3 0 C141809658 C469298476 13108243 CASH_OUT 251999.33 118538.67 0.00 1744702.85 4 0 C325687002 C613840514 13108244 CASH_OUT 150597.89 216119.72 65521.83 104549.67 5 0 C706898907 M118590181 13108245 PAYMENT 12161.54 65521.83 53360.29 0.00 6 0 C290148858 C1043171418 13108246 CASH_IN 58234.62 31369.00 89603.62 284871.74 7 0 C1313589839 C1494580010 13108247 CASH_OUT 325970.44 15591.00 0.00 0.00 12225.22 8 0 C2093217368 C1379050026 13108249 CASH_OUT 40860.83 0.00 0.00 943678.67 9 0 C209321775931 M667226543 3108250 PAYME	0.00 1996702.18 255147.56
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4 0 C325687002 C613840514 13108244 CASH_OUT 150597.89 216119.72 65521.83 104549.67 5 0 C706898007 M118590181 13108245 PAYMENT 12161.54 65521.83 53360.29 0.00 6 0 C290148868 C1043171418 13108246 CASH_IN 58234.62 31369.00 89603.62 284871.74 7 0 C1313589839 C1494580010 13108247 CASH_OUT 325970.44 15591.00 0.00 12225.22 8 0 C2093217368 C1379050026 13108249 CASH_OUT 40860.83 0.00 0.00 943678.67 9 0 C293217368 C1379050026 13108250 PAYMENT 6409.96 64446.00 58036.04 0.00 10 0 C548077781 M1136219054 13108251 PAYMENT 5259.07 27775.00 22515.93 0.00 12 0 C289572358 M512079336 13108253 CASH_OUT 13676.00<	255147.56
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8 0 C2005802222 C934651164 13108248 CASH_OUT 40860.83 0.00 0.00 943678.67 9 0 C2093217368 C1379050026 13108249 CASH_IN 262061.02 33881.00 295942.02 0.00 10 0 C927775931 M667226543 13108250 PAYMENT 6409.96 64446.00 58036.04 0.00 11 0 C548077781 M1136219054 13108251 PAYMENT 5259.07 27775.00 22515.93 0.00 12 0 C289572358 M512079336 13108252 PAYMENT 13876.00 22515.93 8639.93 0.00 13 0 C1724953413 C2042648721 13108253 CASH_OUT 66722.61 26306.00 0.00 18190.00 14 0 C1878894610 C308006848 13108255 CASH_OUT 64120.91 315291.82 251170.91 199757.49 15 0 C1779069277 C1829747368 13108255 CASH_OUT 64120.91	338195.66
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10 0 C927775931 M667226543 13108250 PAYMENT 6409.96 64446.00 58036.04 0.00 11 0 C548077781 M1136219054 13108251 PAYMENT 5259.07 27775.00 22515.93 0.00 12 0 C289572358 M512079336 13108252 PAYMENT 13876.00 22515.93 8639.93 0.00 13 0 C1724953413 C2042648721 13108253 CASH_OUT 66722.61 26306.00 0.00 18190.00 14 0 C1878894610 C308006848 13108254 CASH_IN 195798.82 119493.00 315291.82 340958.00 15 0 C1779069277 C1829747368 13108255 CASH_OUT 64120.91 315291.82 251170.91 199757.49 16 0 C1494459137 C1646698881 13108256 CASH_OUT 80111.03 159222.59 79111.56 378271.38 18 0 C976910845 C1297893283 13108258 CASH_OUT	0.00
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19 0 C20768068 C236017361 13108259 CASH_OUT 6996.50 0.00 0.00 115911.69 20 0 C1173571017 C960984 13108260 CASH_OUT 341810.30 0.00 0.00 469105.96 21 0 C753875227 C215096440 13108241 CASH_OUT 300136.85 0.00 0.00 795009.42 22 0 C1000414829 C827837524 13108242 CASH_OUT 196140.05 0.00 0.00 378127.87 23 0 C1565641368 C338348088 13108243 CASH_OUT 1388.22 0.00 0.00 30845.00 24 0 C47383030 C1198898950 13108244 CASH_OUT 81870.38 0.00 0.00 616319.75 25 0 C1470224214 C1838243877 13108245 CASH_OUT 420303.21 0.00 0.00 712685.23 26 0 C1690364345 C1211312974 13108246 CASH_OUT 197545.93 0.00	3384715.34
20 0 C1173571017 C960984 13108260 CASH_OUT 341810.30 0.00 0.00 469105.96 21 0 C753875227 C215096440 13108241 CASH_OUT 300136.85 0.00 0.00 795009.42 22 0 C1000414829 C827837524 13108242 CASH_OUT 196140.05 0.00 0.00 378127.87 23 0 C1565641368 C338348088 13108243 CASH_OUT 1388.22 0.00 0.00 30845.00 24 0 C47383030 C1198898950 13108244 CASH_OUT 81870.38 0.00 0.00 616319.75 25 0 C1470224214 C1838243877 13108245 CASH_OUT 420303.21 0.00 0.00 712685.23 26 0 C1690364345 C1211312974 13108246 CASH_OUT 197545.93 0.00 0.00 386430.58	122908.19
22 0 C1000414829 C827837524 13108242 CASH_OUT 196140.05 0.00 0.00 378127.87 23 0 C1565641368 C338348088 13108243 CASH_OUT 1388.22 0.00 0.00 30845.00 24 0 C47383030 C1198898950 13108244 CASH_OUT 81870.38 0.00 0.00 616319.75 25 0 C1470224214 C1838243877 13108245 CASH_OUT 420303.21 0.00 0.00 712685.23 26 0 C1690364345 C1211312974 13108246 CASH_OUT 197545.93 0.00 0.00 386430.58	810916.26
23 0 C1565641368 C338348088 13108243 CASH_OUT 1388.22 0.00 0.00 30845.00 24 0 C47383030 C1198898950 13108244 CASH_OUT 81870.38 0.00 0.00 616319.75 25 0 C1470224214 C1838243877 13108245 CASH_OUT 420303.21 0.00 0.00 712685.23 26 0 C1690364345 C1211312974 13108246 CASH_OUT 197545.93 0.00 0.00 386430.58	1095146.27
24 0 C47383030 C1198898950 13108244 CASH_OUT 81870.38 0.00 0.00 616319.75 25 0 C1470224214 C1838243877 13108245 CASH_OUT 420303.21 0.00 0.00 712685.23 26 0 C1690364345 C1211312974 13108246 CASH_OUT 197545.93 0.00 0.00 386430.58	574267.93
25 0 C1470224214 C1838243877 13108245 CASH_OUT 420303.21 0.00 0.00 712685.23 26 0 C1690364345 C1211312974 13108246 CASH_OUT 197545.93 0.00 0.00 386430.58	32233.22
26 0 C1690364345 C1211312974 13108246 CASH_OUT 197545.93 0.00 0.00 386430.58	698190.13
	1132988.45
27 0 C932641459 C63243575 13108247 CASH_OUT 220462.12 0.00 0.00 1381657.22	583976.51
	1602119.35
28 0 C760250630 C542420222 13108248 CASH_OUT 407528.99 0.00 0.00 960300.60	1367829.59
29 0 C1955784861 C1553483677 13108249 CASH_OUT 204626.99 0.00 0.00 361288.45	565915.45
30 0 C402410135 C1383559851 13108250 CASH_OUT 21068.62 0.00 0.00 378613.81	399682.43
31 0 C398424505 C427762732 13108251 CASH_OUT 111524.80 0.00 0.00 1127982.39	1239507.19
32 0 C1053721337 C144006118 13108252 CASH_OUT 87397.70 0.00 0.00 160109.20	247506.90
33 0 C1576747965 C1385714233 13108253 CASH_OUT 155816.06 0.00 0.00 358529.41	514345.47
34 0 C673583719 C266383440 13108254 CASH_OUT 126021.12 0.00 0.00 215970.84	341991.96
35 0 C1144575083 C307841806 13108255 CASH_OUT 198349.39 0.00 0.00 4874245.83	5072595.22
36 0 C237719391 M155849612 13108256 PAYMENT 12226.17 5569.00 0.00 0.00	0.00
37 0 C300387816 C932389355 13108257 CASH_OUT 132653.34 4180.00 0.00 12656.00	145309.34
38 0 C335452211 M1199271076 13108258 PAYMENT 18357.31 52548.00 34190.69 0.00	0.00
39 0 C519356852 M860981071 13108259 PAYMENT 6209.14 34190.69 27981.55 0.00	0.00
40 0 C1409924630 C1744864622 13108260 CASH_OUT 122723.48 51991.00 0.00 1768.00	124491.48
41 0 C1217128063 C437864036 13108241 CASH_IN 197342.12 60561.00 257903.12 437168.06	239825.94
42 0 C1892313019 C448070390 13108242 CASH_OUT 166110.41 12043.00 0.00 0.00	166110.41
43 0 C1327430930 C1727562137 13108243 CASH_OUT 174572.89 219.00 0.00 2897.65	177470.54
44 0 C1459491817 C1113244956 13108244 CASH_OUT 326399.62 5829.00 0.00 274698.00	601097.62

45	0	C1104260951	C1666211585	13108245	TRANSFER	103622.43	13508.00	0.00	610831.14	714453.58
46	0	C1644556137	M1523284054	13108246	PAYMENT	13275.16	961.00	0.00	0.00	0.00
47	0	C2089568701	C1234220290	13108247	CASH_OUT	46802.47	11399.00	0.00	110753.84	157556.31
48	0	C820771436	M2111321535	13108248	PAYMENT	1236.12	0.00	0.00	0.00	0.00
49	0	C2094066586	M1645188124	13108249	PAYMENT	15777.13	651335.00	635557.87	0.00	0.00
51	0	C831624034	M1248207601	13108251	PAYMENT	66.84	0.00	0.00	0.00	0.00
52	0	C1415049429	C289045778	13108252	TRANSFER	92977.29	651.00	0.00	3107462.04	3200439.33
53	0	C404100486	C1849300624	13108253	CASH_OUT	436383.15	122221.00	0.00	2660162.86	3096546.02
54	0	C631349093	C1959877812	13108254	CASH_OUT	97501.02	10375.00	0.00	110345.94	207846.97
55	0	C1588285578	M890356434	13108255	PAYMENT	1459.13	0.00	0.00	0.00	0.00
56	0	C486755283	M888186273	13108256	PAYMENT	977.31	0.00	0.00	0.00	0.00
57	0	C811310261	C745043193	13108257	CASH_OUT	41197.51	22225.00	0.00	457114.81	498312.32
58	0	C191352638	C611855891	13108258	CASH_OUT	183199.97	240990.27	57790.30	800998.07	984198.04
59	0	C205340754	M1037119961	13108259	PAYMENT	6662.86	57790.30	51127.44	0.00	0.00
60	0	C1367588066	C1364262243	13108260	CASH_OUT	197117.38	198.00	0.00	634865.14	831982.52
61	0	C1688766419	C886088157	13108241	CASH_OUT	219965.01	25095.00	0.00	203775.53	423740.55
62	0	C40989892	M916116138	13108242	PAYMENT	17673.99	21612.00	3938.01	0.00	0.00
63	0	C2050100279	C801357928	13108243	CASH_IN	166122.36	3851.00	169973.36	363932.79	197810.44
64	0	C1510247101	C1251825669	13108244	CASH_OUT	247945.18	910.00	0.00	0.00	247945.18
65	0	C1398411885	M859149614	13108245	PAYMENT	15341.03	3562.00	0.00	0.00	0.00
66	0	C1502377163	M656628773	13108246	PAYMENT	22016.49	0.00	0.00	0.00	0.00
67	0	C610921430	M996837008	13108247	PAYMENT	329.84	178259.00	177929.16	0.00	0.00
68	0	C33195802	C2137760777	13108248	TRANSFER	990979.54	619.00	0.00	4817704.73	5808684.28
69	0	C1006969204	C1172225915	13108249	CASH_IN	337520.03	49948.00	387468.03	121725.22	0.00
70	0	C1473862265	C288298363	13108250	TRANSFER	130237.97	11254.00	0.00	0.00	130237.97
71	0	C954730516	C669208078	13108251	DEBIT	472.87	0.00	0.00	2001374.99	2001847.87
72	0	C1837079108	C259373099	13108252	CASH_OUT	109473.79	20301.00	0.00	4293.00	113766.79
73	0	C2028214302	M1702076393	13108253	PAYMENT	15680.83	12548.00	0.00	0.00	0.00
74	0	C497259515	C1931240788	13108254	CASH_OUT		0.00	0.00	6473397.89	6716784.13
75	0	C211781553	C2069134221	13108255	CASH_IN	69679.56	37421.00	107100.56	52128.88	0.00
76	0	C1415797460	C947486490	13108256	CASH_IN	34020.83	424.00	34444.83	0.00	0.00
77	0	C756419430	M741042548	13108257	PAYMENT	5766.00	157353.00	151587.00	0.00	0.00
78	0	C1559875919	C245368430	13108258	CASH_OUT	94322.54	151587.00	57264.46	109927.01	204249.54
79	0	C302155262	M257090019	13108259	PAYMENT	16757.23	90268.00	73510.77	0.00	0.00
80	0	C2026199476	M1789168714	13108260	PAYMENT	4976.62	73510.77	68534.15	0.00	0.00
81	0	C1812978069	M1951031310	13108241	PAYMENT	23826.06	0.00	0.00	0.00	0.00
82	0	C638619594	C1965816690	13108242	CASH_OUT	17485.06	0.00	0.00	319612.98	337098.04
83	0	C1754825118	M2060004969	13108243	PAYMENT	2272.69	51054.00	48781.31	0.00	0.00
84	0	C1562671918	C548785403	13108244	CASH_OUT	181338.78	20472.00	0.00	0.00	181338.78
85	0	C2137575839	M1406151581	13108245	PAYMENT	7271.81	250201.00	242929.19	0.00	0.00
86	0	C1616506344	C191447124	13108246	CASH_IN	207370.63	20983.00	228353.63	1096208.36	888837.73
87	0	C509216710	M654821819	13108247	PAYMENT	20833.87	30965.00	10131.13	0.00	0.00
88	0	C1977192965	C1241750549	13108248	CASH_OUT	115964.98	10131.13	0.00	884948.99	1000913.98

+ 799 more

Scores

Model

Using the Random Forest model to predict fraudulent transactions on new data, 13 instances were identified with a prediction of "1", indicating fraud. When examining the "type" column, it is noticeable that many of the predicted fraudulent transactions are of the "CASH_OUT" type. Therefore, it is advisable to focus more on "CASH_OUT" transactions and strengthen fraud prevention measures specifically for this transaction type.