Summary of the Logistic Regression model (built using glm):

\*\*\*Note\*\*\* Singularities were found in the modeling

and are indicated by an NA in the following table.

This is often the case when variables are linear

combinations of other variables, or the variable

has a constant value. These variables will be ignored

when using the model to score new data and will not be

included as parameters in the exported scoring routine.

Call:

glm(formula = isFraud ~ ., family = binomial(link = "logit"),

data = crs$dataset[crs$train, c(crs$input, crs$target)])

Deviance Residuals:

[1] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[35] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[69] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[103] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[137] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[171] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[205] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[239] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[273] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[307] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[341] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[375] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[409] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[443] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[477] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[511] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[545] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[579] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[613] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[647] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[681] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[715] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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[953] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[987] 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[ reached getOption("max.print") -- omitted 2633 entries ]

Coefficients: (2535 not defined because of singularities)

Estimate Std. Error z value Pr(>|z|)

(Intercept) -2.657e+01 6.698e+07 0 1

Step -2.645e-12 1.718e+06 0 1

TypeCASH\_OUT -3.507e-11 2.442e+07 0 1

TypeDEBIT -8.802e-11 6.437e+07 0 1

TypePAYMENT -8.673e-11 6.313e+07 0 1

TypeTRANSFER 5.313e+01 2.227e+08 0 1

Amount -4.870e-16 3.572e+02 0 1

NameOrigC1000937208 2.496e-09 3.986e+08 0 1

NameOrigC1002872041 5.195e-12 3.376e+06 0 1

NameOrigC1003023037 5.313e+01 1.407e+08 0 1

NameOrigC1003206025 -2.432e-12 1.944e+06 0 1

NameOrigC1003307628 -2.742e-12 2.154e+06 0 1

NameOrigC1003663195 1.322e-11 8.077e+06 0 1

NameOrigC1003755748 1.524e-12 1.152e+06 0 1

NameOrigC1006297128 8.394e-11 6.093e+07 0 1

NameOrigC100708535 9.505e-11 6.945e+07 0 1

NameOrigC1007402143 1.243e-13 5.063e+05 0 1

NameOrigC1007550632 -5.313e+01 1.146e+08 0 1

NameOrigC1009218257 -1.829e-12 1.413e+06 0 1

NameOrigC1009916891 4.569e-11 3.222e+07 0 1

NameOrigC1011044643 4.485e-12 3.430e+06 0 1

NameOrigC1011104118 -3.367e-11 2.615e+07 0 1

NameOrigC1011158272 5.313e+01 1.258e+09 0 1

NameOrigC1011481270 3.084e-12 2.200e+06 0 1

NameOrigC1011490419 5.313e+01 1.304e+09 0 1

NameOrigC1011599868 7.785e-12 5.589e+06 0 1

NameOrigC1012552887 -5.313e+01 1.913e+08 0 1

NameOrigC1013528106 -2.530e-13 5.328e+05 0 1

NameOrigC1014698874 2.879e-12 1.763e+06 0 1

NameOrigC1015122628 -5.862e-12 5.827e+06 0 1

NameOrigC1015539383 -2.370e-11 1.909e+07 0 1

NameOrigC1015545330 7.683e-13 5.132e+05 0 1

NameOrigC1016323653 5.313e+01 3.677e+08 0 1

NameOrigC1016521533 2.174e-07 2.385e+09 0 1

NameOrigC1016625178 2.867e-12 2.116e+06 0 1

NameOrigC1016856028 -1.994e-12 1.628e+06 0 1

NameOrigC1016889565 4.649e-06 3.077e+07 0 1

NameOrigC1017792343 2.100e-11 1.410e+07 0 1

NameOrigC1019416046 -5.357e-11 3.977e+07 0 1

NameOrigC1020850249 5.313e+01 8.085e+07 0 1

NameOrigC1021314422 4.628e-06 2.604e+07 0 1

NameOrigC1021565761 -5.313e+01 2.813e+08 0 1

NameOrigC1022498421 3.941e-09 1.014e+09 0 1

NameOrigC1022920965 5.313e+01 2.756e+07 0 1

NameOrigC102318785 -2.442e-11 1.934e+07 0 1

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NameOrigC1027569178 -2.440e-12 1.939e+06 0 1

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NameOrigC1028472807 -2.631e-11 1.960e+07 0 1

NameOrigC1029198062 9.011e-09 7.007e+07 0 1

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NameOrigC1032656803 -7.854e-11 5.829e+07 0 1

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NameOrigC1037242711 -1.818e-12 3.060e+06 0 1

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NameOrigC1042891691 -3.109e-11 2.456e+07 0 1

NameOrigC1043173812 2.007e-07 1.115e+08 0 1

NameOrigC1043358826 8.937e-14 5.042e+05 0 1

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NameOrigC1057589740 5.313e+01 1.675e+08 0 1

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NameOrigC1060042118 -5.185e-13 6.837e+05 0 1

NameOrigC1060519157 -6.651e-11 4.913e+07 0 1

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NameOrigC1061018585 6.077e-12 4.409e+06 0 1

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NameOrigC1061448687 9.244e-11 6.752e+07 0 1

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NameOrigC1061805919 5.313e+01 1.309e+08 0 1

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NameOrigC1062181581 -5.313e+01 1.993e+08 0 1

NameOrigC1062379106 5.313e+01 4.370e+08 0 1

NameOrigC1063801186 -7.981e-11 5.882e+07 0 1

NameOrigC1064905627 -4.623e-11 3.420e+07 0 1

NameOrigC1066856480 2.598e-12 1.917e+06 0 1

NameOrigC1067826676 4.858e-06 4.197e+08 0 1

NameOrigC1068445309 2.837e-12 2.038e+06 0 1

NameOrigC1068945248 -1.502e-12 1.351e+06 0 1

NameOrigC1069436988 -1.103e-11 1.005e+07 0 1

NameOrigC1069584108 3.819e-13 6.684e+05 0 1

NameOrigC1070057268 -1.018e-11 7.981e+06 0 1

NameOrigC1070694303 5.313e+01 4.113e+07 0 1

NameOrigC1071933072 8.049e-11 5.774e+07 0 1

NameOrigC1072220674 5.313e+01 3.519e+08 0 1

NameOrigC1072407495 5.313e+01 2.455e+08 0 1

NameOrigC1073878937 -4.911e-13 6.692e+05 0 1

NameOrigC1074348771 -9.002e-09 3.071e+09 0 1

NameOrigC1074844820 -2.076e-12 1.682e+06 0 1

NameOrigC1074976188 -5.313e+01 1.769e+08 0 1

NameOrigC1075082007 -9.909e-13 1.212e+06 0 1

NameOrigC1075996552 -5.971e-15 5.247e+05 0 1

NameOrigC107615831 1.048e-08 1.851e+08 0 1

NameOrigC1076202543 1.562e-10 1.132e+08 0 1

NameOrigC107632469 3.781e-12 2.517e+06 0 1

NameOrigC1076609671 5.313e+01 7.236e+07 0 1

NameOrigC1076855029 -3.785e-12 3.059e+06 0 1

NameOrigC1076966140 -2.415e-12 1.917e+06 0 1

NameOrigC1078448857 1.529e-12 9.495e+05 0 1

NameOrigC1079125839 1.536e-12 1.126e+06 0 1

NameOrigC1079384969 5.313e+01 1.177e+08 0 1

NameOrigC1079733621 7.682e-13 5.214e+05 0 1

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NameOrigC1082528716 2.394e-12 1.349e+06 0 1

NameOrigC1082795132 2.419e-10 1.761e+08 0 1

NameOrigC1083292099 2.370e-12 1.507e+06 0 1

NameOrigC1083777179 -2.315e-13 6.354e+05 0 1

NameOrigC1085041526 1.485e-12 9.105e+05 0 1

NameOrigC108588868 -5.747e-09 8.495e+07 0 1

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NameOrigC1086849943 1.802e-11 1.191e+07 0 1

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NameOrigC1088417975 2.554e-11 1.737e+07 0 1

NameOrigC1088491512 8.167e-12 5.732e+06 0 1

NameOrigC10885570 8.581e-11 6.166e+07 0 1

NameOrigC1088649990 -5.302e-11 3.937e+07 0 1

NameOrigC1088744071 1.002e-12 9.755e+05 0 1

NameOrigC1089407736 1.126e-11 7.654e+06 0 1

NameOrigC1089680530 -1.230e-12 1.340e+06 0 1

NameOrigC108982313 1.786e-12 1.499e+06 0 1

NameOrigC1089930529 1.133e-12 5.805e+05 0 1

NameOrigC109065770 1.704e-10 1.248e+08 0 1

NameOrigC1091107430 -5.313e+01 2.734e+08 0 1

NameOrigC1091597918 3.462e-12 2.303e+06 0 1

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NameOrigC1093223281 1.883e-08 1.161e+08 0 1

NameOrigC1093441885 -2.293e-11 1.820e+07 0 1

NameOrigC1094199074 -5.762e-11 4.254e+07 0 1

NameOrigC1094272405 -5.313e+01 1.855e+08 0 1

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NameOrigC1096742104 4.916e-12 3.366e+06 0 1

NameOrigC1097380 3.140e-12 2.157e+06 0 1

NameOrigC1098568947 -4.567e-11 3.563e+07 0 1

NameOrigC1098737173 2.855e-11 2.066e+07 0 1

NameOrigC1099552523 9.239e-13 9.839e+05 0 1

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NameOrigC1101598632 3.064e-11 2.112e+07 0 1

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NameOrigC1101896788 5.313e+01 2.213e+08 0 1

NameOrigC110197684 -4.219e-11 3.119e+07 0 1

NameOrigC110233108 -5.313e+01 2.719e+08 0 1

NameOrigC1102672587 4.859e-06 2.409e+09 0 1

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NameOrigC1107579932 1.948e-11 1.368e+07 0 1

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NameOrigC1108517064 -5.313e+01 2.777e+08 0 1

NameOrigC1108706191 1.527e-12 5.278e+05 0 1

NameOrigC1108730163 6.510e-12 4.508e+06 0 1

NameOrigC1108889615 8.646e-13 7.562e+05 0 1

NameOrigC1109966680 -3.982e-14 5.411e+05 0 1

NameOrigC1110095671 3.795e-12 2.393e+06 0 1

NameOrigC1110195322 2.727e-13 5.174e+05 0 1

NameOrigC1110913929 -6.785e-13 7.582e+05 0 1

NameOrigC1111173986 3.417e-12 2.257e+06 0 1

NameOrigC1111379131 -5.313e+01 2.864e+08 0 1

NameOrigC1112075608 8.282e-13 7.415e+05 0 1

NameOrigC1112400678 1.376e-11 9.739e+06 0 1

NameOrigC1112456099 -4.091e-11 3.161e+07 0 1

NameOrigC1112569408 5.825e-12 3.892e+06 0 1

NameOrigC1112574505 5.313e+01 3.760e+07 0 1

NameOrigC1113414982 -7.506e-11 5.534e+07 0 1

NameOrigC1113666007 3.368e-12 2.095e+06 0 1

NameOrigC1113895488 -6.552e-11 4.834e+07 0 1

NameOrigC1114335860 6.366e-13 5.865e+05 0 1

NameOrigC1114525788 1.805e-10 1.321e+08 0 1

NameOrigC1115361466 5.313e+01 7.621e+08 0 1

NameOrigC1116093088 1.559e-08 2.255e+07 0 1

NameOrigC1118399210 1.984e-09 1.686e+08 0 1

NameOrigC1118430673 5.313e+01 3.371e+07 0 1

NameOrigC1118998513 -8.331e-13 8.680e+05 0 1

NameOrigC1119277260 -1.512e-12 1.289e+06 0 1

NameOrigC1119371910 6.653e-13 4.804e+05 0 1

NameOrigC1120670624 -1.887e-12 1.394e+06 0 1

NameOrigC112075481 -1.489e-08 1.358e+08 0 1

NameOrigC1121072891 -6.646e-13 7.553e+05 0 1

NameOrigC1121219802 5.313e+01 1.330e+08 0 1

NameOrigC1123186349 2.145e-07 1.173e+08 0 1

NameOrigC1123236701 -2.591e-12 1.986e+06 0 1

NameOrigC1123321137 -8.415e-11 6.222e+07 0 1

NameOrigC1123559518 5.341e-11 3.794e+07 0 1

[ reached getOption("max.print") -- omitted 5918 rows ]

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 3.4674e+03 on 3632 degrees of freedom

Residual deviance: 2.1077e-08 on 0 degrees of freedom

(730360 observations deleted due to missingness)

AIC: 7266

Number of Fisher Scoring iterations: 25

Log likelihood: -0.000 (3633 df)

Null/Residual deviance difference: 3467.418 (3632 df)

Chi-square p-value: 0.00071678

Pseudo R-Square (optimistic): 1.00000000

==== ANOVA ====

Analysis of Deviance Table

Model: binomial, link: logit

Response: isFraud

Terms added sequentially (first to last)

Df Deviance Resid. Df Resid. Dev Pr(>Chi)

NULL 3632 3467.4

Step 1 3143.80 3631 323.6 <2e-16 \*\*\*

Type 4 100.01 3627 223.6 <2e-16 \*\*\*

Amount 1 2.51 3626 221.1 0.1132

NameOrig 3626 221.10 0 0.0 1.0000

OldBalanceOrg 0 0.00 0 0.0

NewBalanceOrig 0 0.00 0 0.0

NameDest 0 0.00 0 0.0

OldBalanceDest 0 0.00 0 0.0

NewBalanceDest 0 0.00 0 0.0

---

Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Time taken: 1.46 hours

Rattle timestamp: 2017-07-29 15:04:26 dbda

======================================================================