Survival Analysis Results

Cox Proportional Hazards Model Results

Number of observations	33520
Number of events	413
Concordance	0.668
Partial AIC	8492.36
Log-likelihood ratio test	21.85
Number of parameters	14

Variable	Coef	Exp(coef)	SE	z	p-value
is_typeC	-0.084	0.92	0.039	-2.142	0.032
day_issued_std	0.03	1.03	0.017	1.803	0.071
validity_period_std	-0.04	0.961	0.017	-2.427	0.015
classification_1_ordinal	-0.003	0.997	0.014	-0.244	0.807
classification_3_ordinal	0.002	1.002	0.007	0.36	0.719
classification_4_ordinal	0.007	1.007	0.011	0.648	0.517
classification_5_ordinal	-0.008	0.992	0.012	-0.658	0.51
KID_CATEGORY_DESC_ordinal	0.011	1.011	0.016	0.659	0.51
classification_2_Y	-0.027	0.973	0.033	-0.807	0.42
classification_2_Z	-0.037	0.963	0.046	-0.809	0.419
HOMEOWNER_DESC_Probable Owner	0.113	1.119	0.156	0.721	0.471
HOMEOWNER_DESC_Probable Renter	-0.112	0.894	0.191	-0.585	0.559
HOMEOWNER_DESC_Renter	0.015	1.015	0.068	0.223	0.823
HOMEOWNER_DESC_Unknown	-0.064	0.938	0.037	-1.72	0.086

Random Survival Forest Results

Feature	Importance	Std
classification_1_ordinal	0.06804608363479354	0.012872859409660677
day_issued	0.06703272297549964	0.019281440025762042
classification_3_ordinal	0.06494670817898784	0.009778612613944056

validity_period	0.04951294643133841	0.012721953051072389
classification_5_ordinal	0.02500439019653624	0.010611533883046625
HOMEOWNER_DESC_Unknown	0.022712914202130896	0.005117438450623713
classification_2_Y	0.020674830021920054	0.0055988151305992615
classification_4_ordinal	0.01685752830902031	0.00680509037332387
KID_CATEGORY_DESC_ordinal	0.012327361977385886	0.004806706562092482
is_typeC	0.007330905124237452	0.00585700859056315
classification_2_Z	0.00728059863686985	0.002031315456529267
HOMEOWNER_DESC_Renter	0.005413267277231138	0.0013892266190790958
HOMEOWNER_DESC_Probable Owner	0.0014368855016084093	0.0012709815259868285
HOMEOWNER_DESC_Probable Renter	0.0012148965049904148	0.00011035617868518827