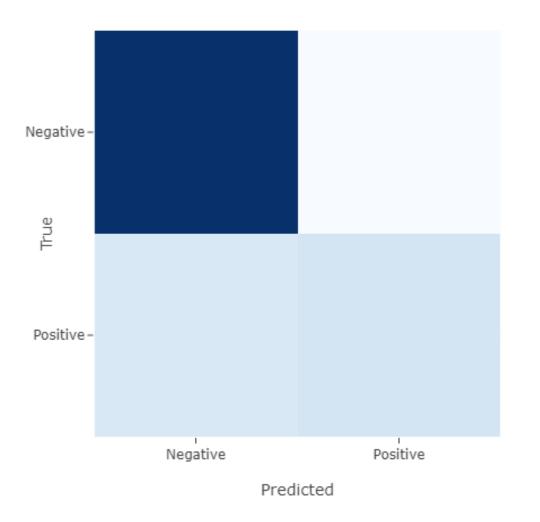
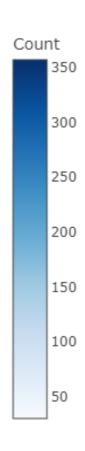
Classification Report precision recall f1-score support 0.82 0.75 0.92 0.53 0.87 0.62 387 168 0 1 accuracy macro avg weighted avg 0.80 555 0.74 0.79 0.78 0.73 0.80 555 0.80 555 Accuracy Accuracy: 0.8036036036036036

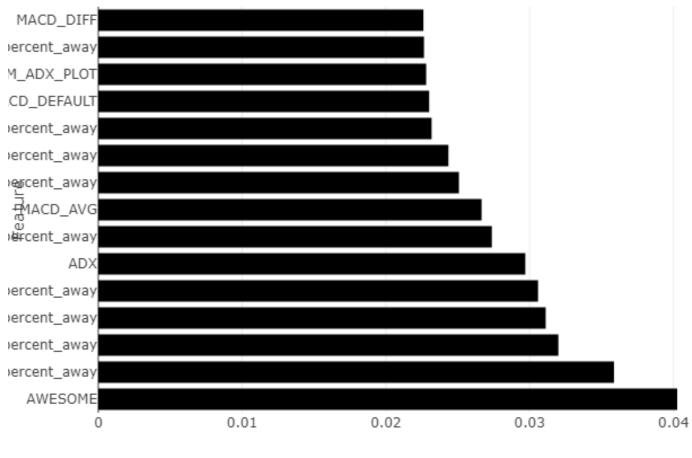
Optimal Win Ranges Summary	start ontimal win ra	nge end
feature optimal_win_range_start optimal_win_range_end 0 AWESOME -1.029104 0.932934 1 MA_ENVELOPES_UPPER_percent_away -2.480524 -2.178969 2 MA_ENVELOPES_UPPER_percent_away -0.566810 0.952562 3 MA_ENVELOPES_UPPER_percent_away 4.130485 4.490032		
1 MA ENVELOPES UPPER percent away	-2 480524	-2 178969
2 MA ENVELOPES UPPER percent away	-0.566810	0.952562
3 MA ENVELOPES UPPER percent away	4.130485	4.490032
4 ZIGZAG_LOW_percent_away	-0.845165	0.437999
4 ZIGZAG_LOW_percent_away 5 ZIGZAG_LOW_percent_away	5.069608	5.240696
6 MA_ENVELOPES_LOWER_percent_away	/ -2.480017	-2.178434
7 MA_ENVELOPES_LOWER_percent_away	/ -0.566126	0.953388
8 MA ENVELOPES LOWER percent away	4.131609	4.491188
9 ZIGZAG_HIGH_percent_away 10 ZIGZAG_HIGH_percent_away	-9.732693	-8.413519
10 ZIGZAG_HIGH_percent_away	-8.137120	-6.415912
11 ZIGZAG_HIGH_percent_away	-0.146693	1.122227
12 ADX -1.467355	-0.131227	0.470000
13 MA_ENVELOPES_MID_percent_away 14 MA_ENVELOPES_MID_percent_away 15 MA_ENVELOPES_MID_percent_away	-2.481288	-2.179680
14 MA_ENVELOPES_MID_percent_away	-0.567235	0.952406
		4.490503
16 MACD_AVG -1.02	27276 0.9038	
17 APZ_UP_percent_away 18 APZ_UP_percent_away	-2.123440 -1. 0.594045 0	993813 924716
19 APZ_UP_percent_away	2 520013 U.	792080
20 APZ UP percent away	2.320013 2. 1/276078 1	572877
21 LIN REG percent away	-2 827463 -2	.438028
22 LIN REG percent away	-2.027405 -1	.954185
23 LIN REG percent away	-0.455450	984279
24 LIN REG percent away	2.305997 2.	612825
17 APZ_UP_percent_away 18 APZ_UP_percent_away 19 APZ_UP_percent_away 20 APZ_UP_percent_away 21 LIN_REG_percent_away 22 LIN_REG_percent_away 23 LIN_REG_percent_away 24 LIN_REG_percent_away 25 LIN_REG_percent_away	4.040752 4.	335779
· · ·		

Loss Mitigation Analysis
count mean std min 25% 50% 75% max ACCUM_DIST 891.0 0.063917 9.238803e-01 -3.858756e+00 -4.200020e-16 -4.200020e-16 -4.200020e-16
ADX 891.0 0.352723 1.080255e+00 -1.467355e+00 -4.801315e-01 1.423905e-01 1.017062
AROON DOWN 891.0 -0.135093 1.024984e+00 -1.402518e+00 -1.402518e+00 1.121756e-01 7
AROON UP 891.0 0.030412 1.003816e+00 -1.475225e+00 -1.025294e+00 5.489907e-01 7.73 ATR 891.0 -0.163947 9.950928e-01 -1.965443e+00 -1.014666e+00 -3.231913e-01 4.547176
AWESOME 891.0 0.117514 1.199634e+00 -1.917871e+00 -1.075950e+00 2.320717e-01 1.30
CCI 891.0 -0.125522 1.105428e+00 -1.929347e+00 -1.314323e+00 -2.573079e-01 1.054337
CHAIKIN 891.0 -0.022477 1.025049e+00 -5.499844e+00 -5.436894e-01 1.088141e-02 5.0399 CMO 891.0 -0.118417 8.988992e-01 -2.517524e+00 -8.529933e-01 -4.817050e-01 7.136240
DISPARITY INDEX 891.0 -0.094066 8.125651e-01 -1.936125e+00 -7.029335e-01 -4.617030e-01 7.130240
DM_ADX_PLOT 891.0 0.352723 1.080255e+00 -1.467355e+00 -4.801315e-01 1.423905e-01 1.
DM_DI_MINUS 891.0 -0.057041 9.978458e-01 -2.751897e+00 -7.355735e-01 -1.227316e-02 6.24
DM_DI_PLUS 891.0 -0.028666 9.712281e-01 -2.807351e+00 -6.424268e-01 -1.036852e-02 6.21 DYNAMIC MOMENTUM 891.0 -0.052995 8.768612e-01 -3.506666e+00 -7.226890e-01 -9.556748e-0
FISHER_TRANSFORM 891.0 -0.083636 1.050579e+00 -1.537346e+00 -1.328498e+00 -4.930431e-0
LIN_REG_SLOPE 891.0 -0.053096 9.336813e-01 -2.073675e+00 -9.191278e-01 -1.494297e-01 9.
MACD_AVG 891.0 0.104472 1.190258e+00 -2.200572e+00 -9.381956e-01 2.389401e-01 1.18 MACD_DEFAULT 891.0 0.098280 1.176312e+00 -2.281100e+00 -9.404748e-01 2.042963e-01 1
MACD_DEFAULT 891.0 0.098280 1.170312e+00 -2.281100e+00 -9.404748e-01 2.042903e-01 1 MACD_DIFF 891.0 -0.114101 1.198506e+00 -2.343214e+00 -1.208496e+00 -2.293962e-01 9.24
MFI 891.0 -0.012124 1.023687e+00 -2.617159e+00 -7.145281e-01 -6.881015e-02 7.399356
MOMENTUM 891.0 -0.107411 8.584032e-01 -2.711072e+00 -6.013073e-01 -6.013073e-01 4.53
OBV 891.0 0.064631 9.283716e-01 -3.907453e+00 -2.268885e-16 -2.268885e-16 -2.268885 PFE 891.0 0.091494 1.097131e+00 -1.924185e+00 -1.008066e+00 1.899370e-01 1.176527
RIND 891.0 -0.148107 1.037276e+00 -2.033483e+00 -9.694674e-01 -1.243251e-01 6.15655
RSI_AVERAGE 891.0 -0.009860 8.603600e-01 -2.801898e+00 -5.956918e-01 1.527672e-02 5.5
RSI_DEFAULT 891.0 -0.083030 8.044056e-01 -2.333340e+00 -6.223927e-01 -1.335505e-01 4.06 RSS 891.0 -0.029047 1.013291e+00 -2.622787e+00 -7.943942e-01 -5.334776e-02 7.014550
RVI 891.0 0.103029 1.171801e+00 -2.288306e+00 -9.318078e-01 1.680130e-01 1.151812e
R_SQUARED 891.0 0.222407 9.742765e-01 -1.718198e+00 -4.711241e-01 6.074267e-01 1.07
STOCH_FAST_D 891.0 -0.102638 1.120682e+00 -1.977527e+00 -1.256080e+00 -1.668279e-01 9 STOCH FAST K 891.0 -0.139940 1.078975e+00 -1.649664e+00 -1.343114e+00 -4.595278e-01 9
TRIX_DEFAULT 891.0 -0.032898 1.388558e-17 -3.289758e-02 -3.28978600000000000000000000000000000000000
TRIX_SIGNAL 891.0 0.023780 1.620234e+00 -3.049942e-02 -3.049942e-02 -3.049942e-02 -3.049942e-02 -3.04
VOLUME 891.0 -0.041640 9.693109e-01 -5.887958e-01 -5.223562e-01 -4.268493e-01 -2.1983 VOLUME_DOWN 891.0 0.049074 1.118808e+00 -3.841527e-01 -3.841527e-01 -3.550689e-01 -1
VOLUME_DOWN 891.0 0.049074 1.118808e+00 -3.841527e-01 -3.841527e-01 -3.550689e-01 -1 VOLUME UP 891.0 -0.094173 8.229634e-01 -3.863490e-01 -3.863490e-01 -3.863490e-01 -2.33
VORTEX_MINUS 891.0 -0.017014 9.328293e-01 -4.016403e+00 -6.346753e-01 8.998051e-02 8.
VORTEX_PLUS 891.0 0.041921 9.381455e-01 -3.013467e+00 -7.614881e-01 -1.082850e-02 7.3
VROC 891.0 -0.074834 8.276113e-01 -6.507844e-01 -5.395453e-01 -3.686253e-01 7.457599 WILLIAMS %R 891.0 -0.139940 1.078974e+00 -1.649663e+00 -1.343113e+00 -4.595267e-01 9.4
144_SMA_percent_away 891.0 -0.035736 1.129122e+00 -3.619241e+00 -6.525986e-01 7.266080e-02
500P_BOLL_LOWER_percent_away 891.0 -0.019663 1.068541e+00 -2.670985e+00 -6.923743e-01 -7.8505
500P_BOLL_UPPER_percent_away 891.0 -0.051544 1.114472e+00 -4.267434e+00 -5.927795e-01 2.67826 618_EMA_percent_away 891.0 -0.048562 1.072546e+00 -3.664322e+00 -6.690748e-01 6.338037e-02
ACCUM_DIST_percent_away 891.0 -0.049800 1.004586e+00 -1.157283e+00 -6.954886e-01 -2.167982e-
APZ_LOW_percent_away 891.0 -0.237508 1.443617e+00 -7.701517e+00 -7.500864e-01 -2.811074e-0
APZ_UP_percent_away 891.0 -0.196027 1.458338e+00 -7.781405e+00 -6.964722e-01 -2.319297e-01 CP+_C_percent_away 891.0 -0.064793 1.007188e+00 -1.971912e+00 -1.050585e+00 1.082007e-01
CP+_R1_percent_away 891.0 -0.067228 1.003957e+00 -2.076107e+00 -1.037413e+00 1.179943e-01
CP+_R2_percent_away 891.0 -0.069356 1.000225e+00 -2.172002e+00 -1.017860e+00 9.657202e-02
CP+_R3_percent_away 891.0 -0.071113 9.960887e-01 -2.256838e+00 -9.866830e-01 8.465814e-02 CP+_R4_percent_away 891.0 -0.073636 9.827229e-01 -2.424276e+00 -8.561770e-01 4.330833e-02
CP+_R5_percent_away 891.0 -0.069710 9.661790e-01 -2.415271e+00 -6.173753e-01 -1.736439e-01
CP+_R6_percent_away 891.0 -0.058433 9.600595e-01 -2.141482e+00 -5.801514e-01 -1.342374e-01
CP+_S1_percent_away 891.0 -0.062136 1.009877e+00 -1.862347e+00 -1.056662e+00 6.803843e-02 CP+_S2_percent_away 891.0 -0.059341 1.012023e+00 -1.839234e+00 -1.063640e+00 3.462352e-02
CP+_S2_percent_away 891.0 -0.059341 1.012023e+00 -1.839234e+00 -1.063640e+00 3.462352e-02 CP+_S3_percent_away 891.0 -0.056473 1.013651e+00 -1.837317e+00 -1.066321e+00 2.110981e-02
CP+_S4_percent_away 891.0 -0.048015 1.015997e+00 -1.798040e+00 -1.016017e+00 -7.943051e-02
CP+_S5_percent_away 891.0 -0.036205 1.015036e+00 -1.687533e+00 -9.275450e-01 -1.888799e-01
CP+_S6_percent_away 891.0 -0.024778 1.010975e+00 -1.537768e+00 -1.009279e+00 -1.463564e-01 LIN_REG_percent_away 891.0 -0.208658 1.416219e+00 -7.453477e+00 -7.012627e-01 -2.537719e-01
LIN_REG_İNTERCEPT_percent_away 891.0 -0.204170 1.344010e+00 -6.091900e+00 -9.885849e-01 -2.0905
MA_ENVELOPES_LOWER_percent_away 891.0 -0.218238 1.420855e+00 -7.096556e+00 -8.628659e-01 -3.7

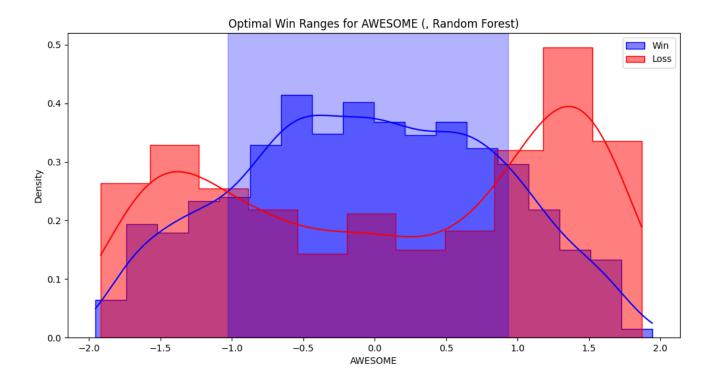


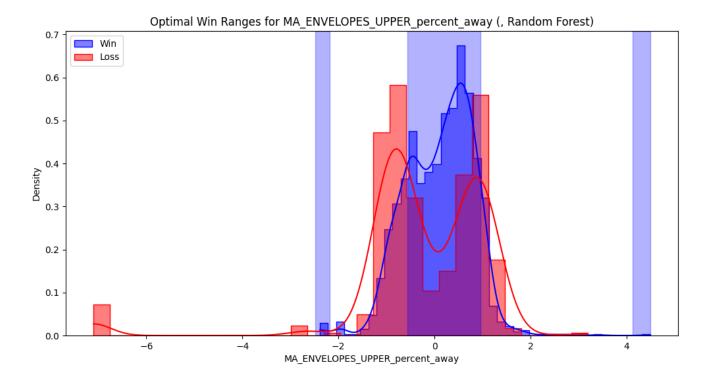


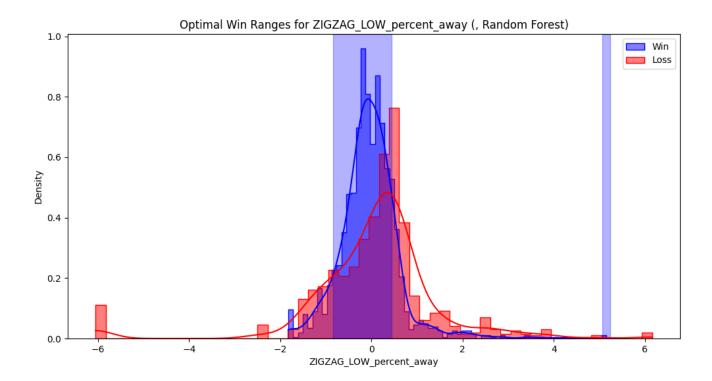


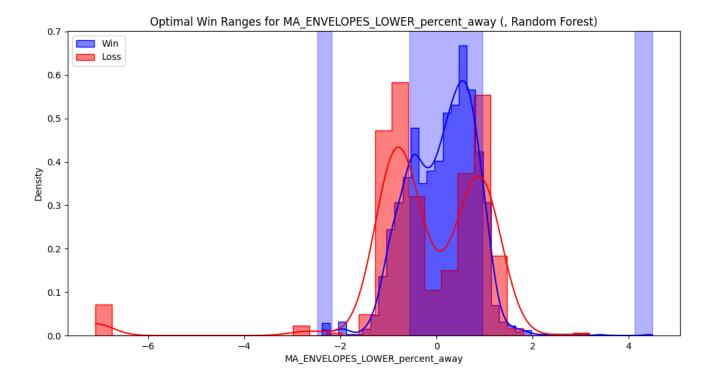


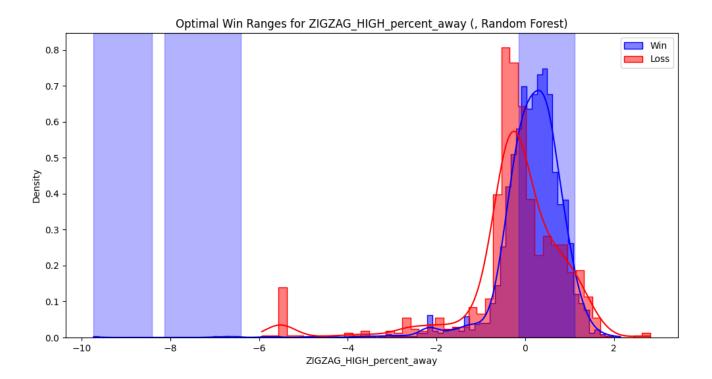
Importance

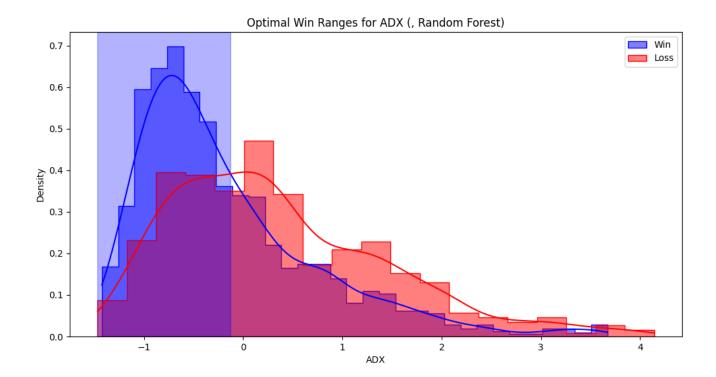


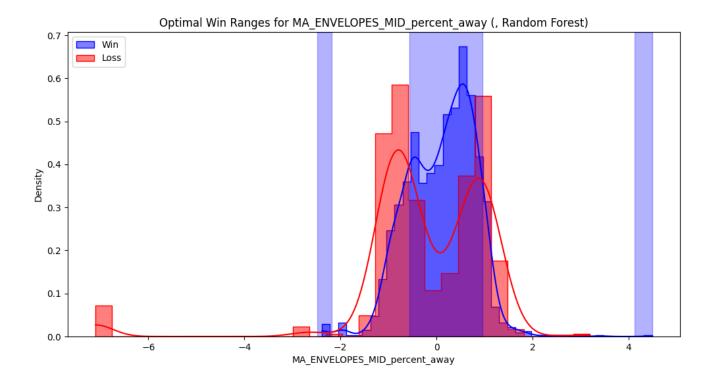


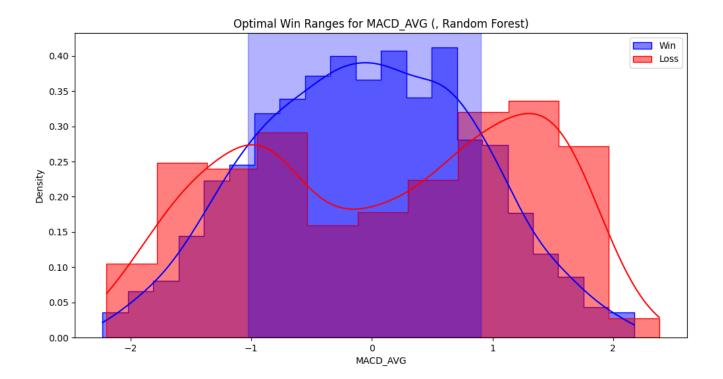


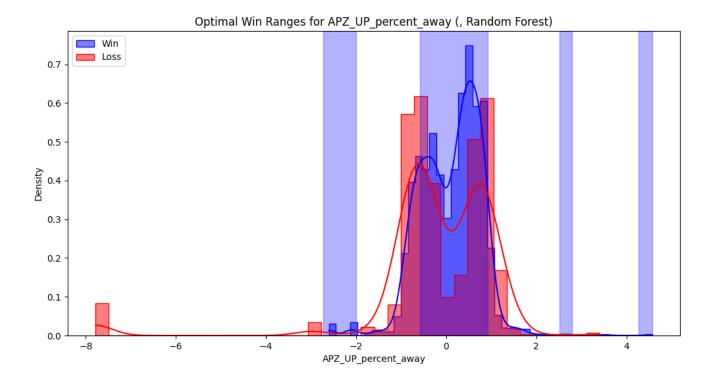


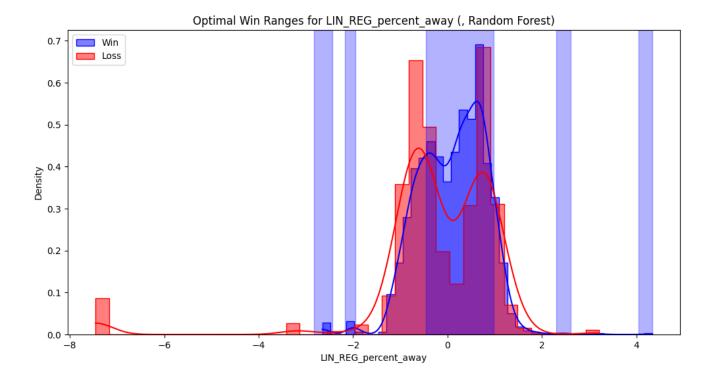


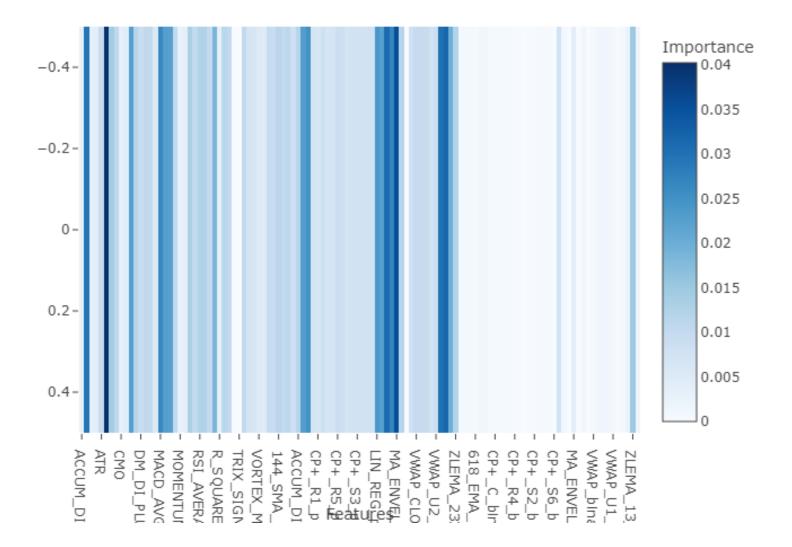






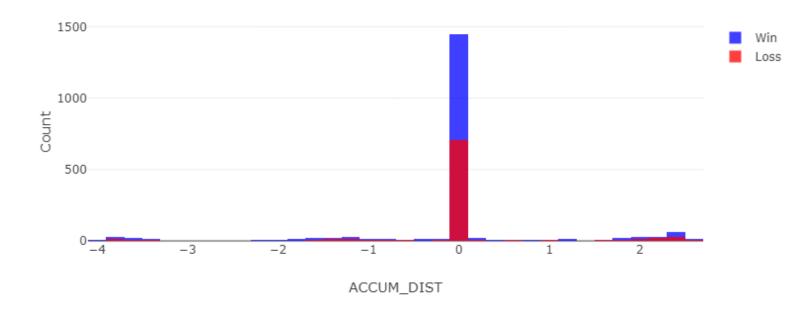




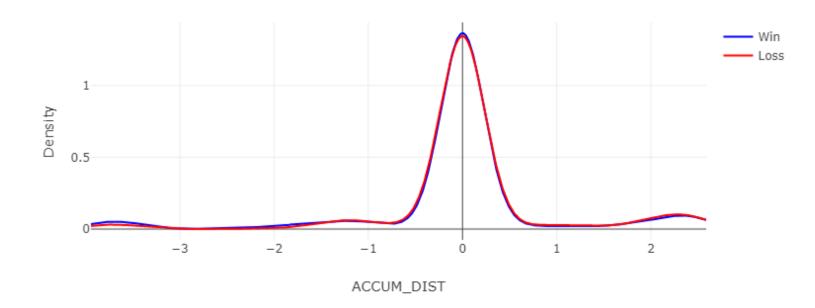




Distribution of ACCUM_DIST for Winning and Losing Trades



KDE Plot with Optimal Win Ranges for ACCUM_DIST



Mean Indicator Values for Losses

