Mean Squared Error Mean Squared Error: 0.25158392668886687

Optimal Win Ranges Summary feature optimal_win_		
reature optimal_win_	range_start_optimal_	_win_range_end
0 DM_ADX_PLOT 1 LIN_REG_binary	-1.407355	-0.131227
1 LIN_REG_binary	-0.434397	0.405437
2 LIN_REG_binary	0.750604	1.016625
3 ZLEMA_13_binary	-0.467945	0.390894
2 LIN_REG_binary 3 ZLEMA_13_binary 4 ZLEMA_13_binary 5 ZIGZAG LOW percent away	0.810170	1.035588
5 ZIGZAG_LOW_percent_away	-0.845165	0.437999
6 ZIGZAG_LOW_percent_away	5.069608	5.240696
7 ATR -0.6 8 DISPARITY_INDEX 9 DISPARITY_INDEX		
8 DISPARITY_INDEX	-2.552720	-0.992406
9 DISPARITY_INDEX	0.686412	2.380044
10 ACCUM_DIST_percent_away	-0.574444	0.457184
11 ACCUM DIST percent away	0.614171	1.343039
12 ACCUM_DIST_percent_away 13 ACCUM_DIST_percent_away	1.982200	2.666214
13 ACCUM DIST percent away	3.367048	3.809976
14 ACCUM DIST percent away	3.966963	4.437923
14 ACCUM_DIST_percent_away 14 ACCUM_DIST_percent_away 15 CP+_C_percent_away 16 CP+_C_percent_away 17 CP+_C_percent_away 18 CP+_C_percent_away	-2 012827	-1 578939
16 CP+ C percent away	-0.110047	0.726091
17 CP+ C percent away	1.065066	1 892165
18 CP+ C percent away	2 185943	2 502320
19 CCI -0.7	98821 1.02	1816
20 CCI 1.1	61001 1.02	1030
21 CP+ S3 binary	01331 1.33	-0.202908
<u> </u>	0.320034	
22 CP+_S3_binary	0.463383	0.775836

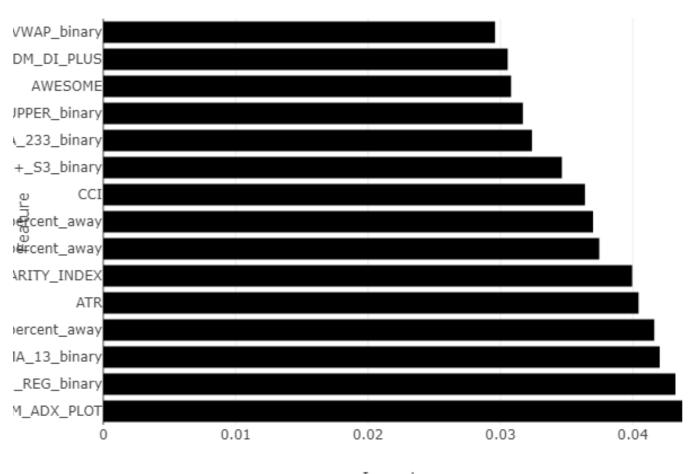
Loss Mitigation Analysis
count mean std min 25% 50% 75% max ACCUM_DIST 891.0 0.063917 9.238803e-01 -3.858756e+00 -4.200020e-16 -4.200020e-16 -4.200020e-16
ADX 891.0 0.352723 1.080255e+00 -1.467355e+00 -4.801315e-01 1.423905e-01 1.017062
AROON DOWN 891.0 -0.135093 1.024984e+00 -1.402518e+00 -1.402518e+00 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

```
Loss Mitigation Analysis
MA_ENVELOPES_MID_percent_away 891.0 -0.218230 1.420946e+00 -7.098215e+00 -8.626462e-01 -3.7898
MA_ENVELOPES_UPPER_percent_away 891.0 -0.218204 1.420854e+00 -7.096632e+00 -8.628910e-01 -3.78
                           891.0 -0.049261 1.001580e+00 -1.108437e+00 -6.931966e-01 -2.611862e-01 2.3
OBV percent away
VROC_percent_away
VWAP_percent_away
                            891.0 0.048273 1.018328e+00 -9.713564e-15 -9.713564e-15 -9.713564e-15 -9.
                            891.0 -0.016305 9.937769e-01 -2.789857e+00 -4.933182e-01 2.103280e-01 5.
VWAP_CLOUD_HIGH_percent_away
                                    891.0 -0.021259 9.871014e-01 -3.158506e+00 -3.866692e-01 4.62605
VWAP_CLOUD_LOW_percent_away
                                    891.0 -0.012475 1.007258e+00 -1.515101e+00 -4.849047e-01 -4.5169
VWAP_L1_percent_away
                             891.0 0.008810 1.015801e+00 -2.6111110e+00 -6.534476e-01 -1.033654e-01
VWAP_U1_percent_away
                              891.0 -0.024801 9.827125e-01 -2.933863e+00 -3.387359e-01 1.568297e-01
VWAP_U2_percent_away
                              891.0 -0.029255 9.773439e-01 -2.977965e+00 -3.537382e-01 1.592885e-01
ZIGZAG_HIGH_percent_away
                               891.0 -0.277588 1.282495e+00 -5.937861e+00 -4.972689e-01 -1.861319e-0
                               891.0 0.080437 1.466338e+00 -6.051142e+00 -4.693406e-01 2.454414e-0
ZIGZAG_LOW_percent_away
                              891.0 -0.210403 1.465259e+00 -8.047752e+00 -6.243002e-01 -1.439191e-01
ZLEMA_13_percent_away
ZLEMA_233_percent_away
                              891.0 -0.021122 1.120561e+00 -3.348054e+00 -6.913492e-01 7.015444e-02
144_SMA_binary
                         891.0 0.025477 1.012797e+00 -1.012242e+00 -1.012242e+00 1.019863e+00 1.0
500P_BOLL_LOWER_binary
                               891.0 -0.003690 1.011292e+00 -1.603643e+00 -1.603643e+00 6.397779e-0
                               891.0 0.084833 1.047517e+00 -5.845364e-01 -5.845364e-01 -5.845364e-01
500P_BOLL_UPPER_binary
618_EMA_binary
                         891.0 -0.022773 1.003768e+00 -9.818034e-01 -9.818034e-01 -9.818034e-01 1.03
ACCUM_DIST_binary
                            891.0 -0.003978 1.007449e+00 -4.085756e-01 -4.085756e-01 -4.085756e-01 0.
APZ_LOW_binary
                          891.0 -0.148341 1.478491e+00 -8.338456e+00 1.564622e-01 1.564622e-01 1.5
APZ UP binary
                         891.0 -0.022943 9.558649e-01 -9.305861e-02 -9.305861e-02 -9.305861e-02 -9.305
CP+ C binary
                        891.0 -0.063578 9.953704e-01 -8.922729e-01 -8.922729e-01 -8.922729e-01 1.1306
CP+_R1_binary
                         891.0 0.001099 1.003019e+00 -6.988134e-01 -6.988134e-01 -6.988134e-01 1.436
CP+_R2_binary
                         891.0 -0.038104 9.711956e-01 -5.156610e-01 -5.156610e-01 -5.156610e-01 -5.156
                         891.0 -0.036002 9.647849e-01 -4.209814e-01 -4.209814e-01 -4.209814e-01 -4.209
CP+ R3 binary
CP+_R4_binary
                         891.0 -0.051734 8.918936e-01 -2.346438e-01 -2.346438e-01 -2.346438e-01 -2.346438e-01
CP+_R5_binary
                         891.0 -0.007651 9.615331e-01 -9.912279e-02 -9.912279e-02 -9.912279e-02 -9.912
CP+ R6 binary
                         891.0 0.000000 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.00
CP+_S1_binary
                         891.0 -0.104151 1.004944e+00 -1.091762e+00 -1.091762e+00 -1.091762e+00 9.17
CP+ S2 binary
                         891.0 -0.102289 1.014284e+00 -1.207635e+00 -1.207635e+00 8.314202e-01 8.31
                         891.0 -0.112740 1.021692e+00 -1.291322e+00 -1.291322e+00 7.758363e-01 7.75
CP+_S3_binary
                         891.0 -0.043591 1.019424e+00 -1.544737e+00 -1.544737e+00 6.479203e-01 6.47
CP+ S4 binary
CP+_S5_binary
                         891.0 0.010947 9.866972e-01 -3.244471e+00 3.116110e-01 3.116110e-01 3.116
CP+_S6_binary
                         891.0 0.000000 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.00
LIN_REG_binary
                         891.0 -0.151507 1.056656e+00 -1.179694e+00 -1.179694e+00 -4.475876e-01 1.0
LIN REG INTERCEPT binary
                                891.0 -0.106368 1.026751e+00 -1.058908e+00 -1.058908e+00 -9.337209e-
MA_ENVELOPES_LOWER_binary
                                   891.0 0.000000 0.000000e+00 0.000000e+00 0.000000e+00 0.00000
MA_ENVELOPES_MID_binary
                                891.0 -0.163293 1.064536e+00 -1.157237e+00 -1.157237e+00 -1.076460e
MA ENVELOPES UPPER binary
                                   891.0 0.000000 0.000000e+00 0.000000e+00 0.000000e+00 0.000000
OBV_binary
                       891.0 -0.010504 9.988443e-01 -4.120212e-01 -4.120212e-01 -4.120212e-01 -4.87991
VROC_binary
                        891.0 0.000000 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000
VWAP_binary
                        891.0 -0.036876 9.960384e-01 -8.269965e-01 -8.269965e-01 -8.269965e-01 1.2244
                                891.0 -0.017174 9.993859e-01 -5.120033e-01 -5.120033e-01 -5.120033e-0
VWAP CLOUD HIGH binary
VWAP_CLOUD_LOW_binary
                                891.0 -0.013489 1.006731e+00 -1.581553e+00 -1.444912e+00 6.989358e
VWAP_L1_binary
                          891.0 -0.033512 1.031209e+00 -2.246854e+00 -7.946543e-01 6.575457e-01 6.57
VWAP_U1_binary
                          891.0 0.043610 1.044491e+00 -4.790301e-01 -4.790301e-01 -4.790301e-01 -4.79
VWAP_U2_binary
                          891.0 0.048490 1.120773e+00 -2.113771e-01 -2.113771e-01 -2.113771e-01 -2.11
ZIGZAG_HIGH_binary
                            891.0 0.070440 1.179440e+00 -2.360314e-01 -2.360314e-01 -2.360314e-01 -2.
                            891.0 -0.181386 1.300693e+00 -4.508998e+00 2.761920e-01 2.761920e-01 2
ZIGZAG_LOW_binary
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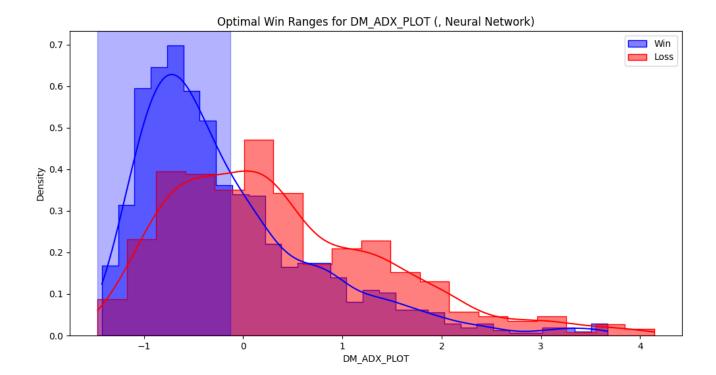
ZLEMA_13_binary ZLEMA_233_binary

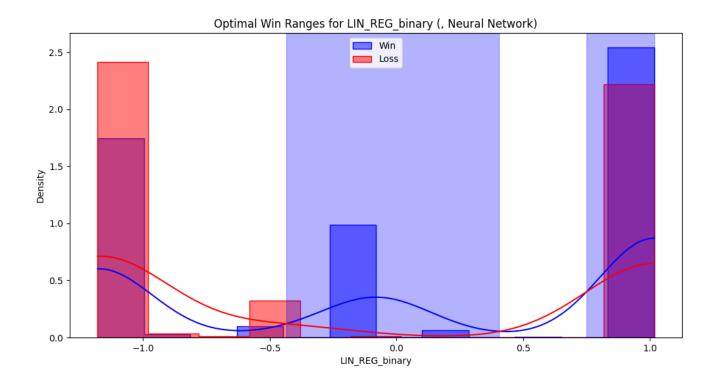
891.0 -0.125468 1.077198e+00 -1.216330e+00 -1.216330e+00 -4.656908e-01 1.0

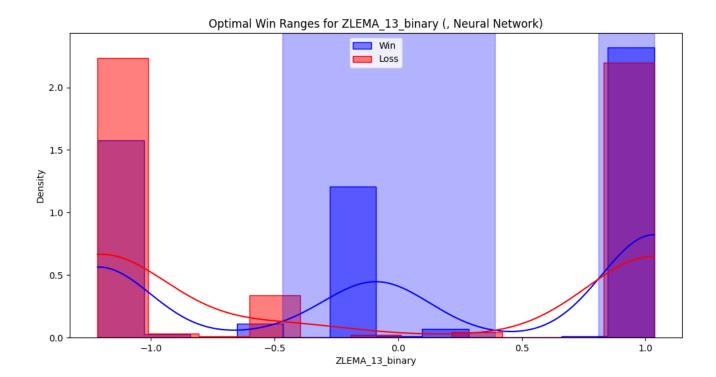
891.0 0.034821 1.011015e+00 -1.089866e+00 -1.089866e+00 9.624623e-01 9.0

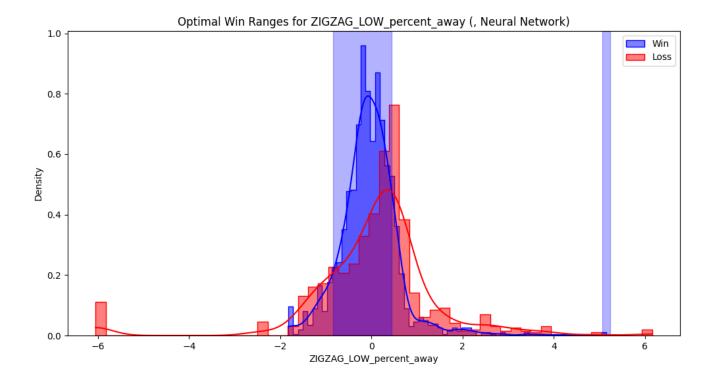


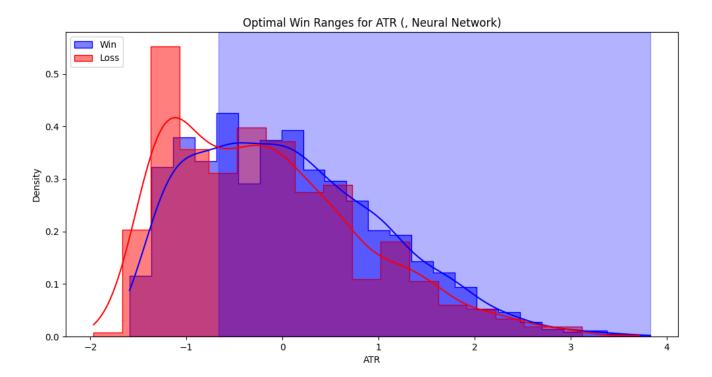
Importance

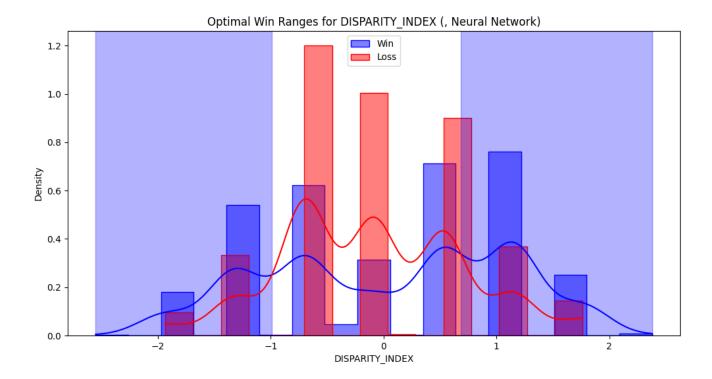


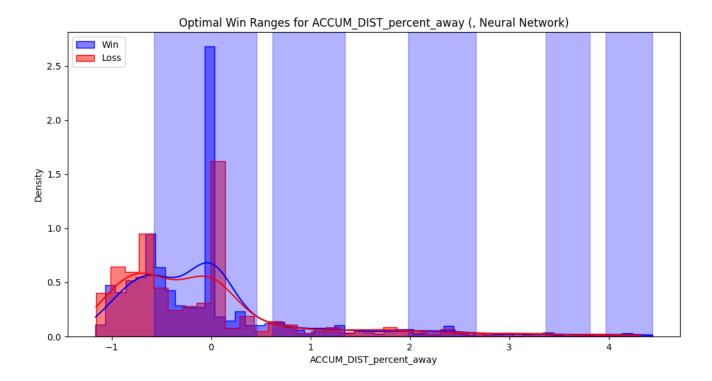


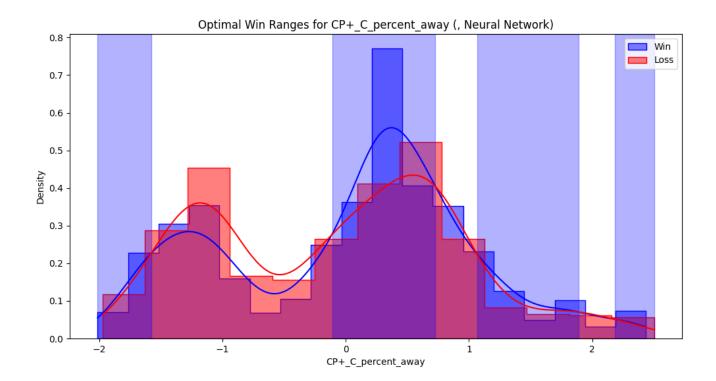


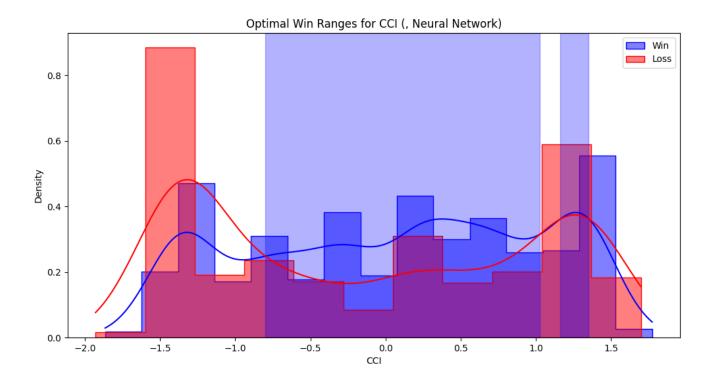


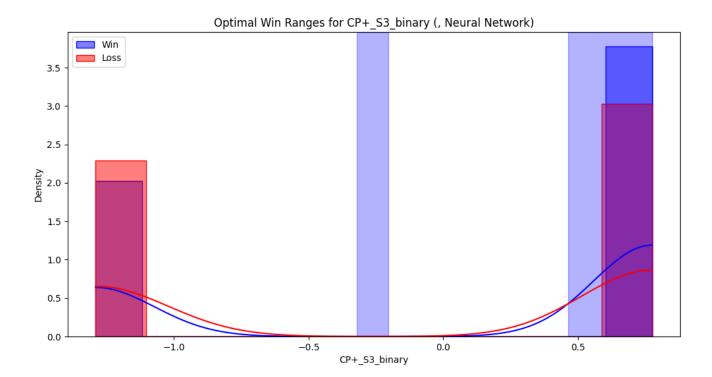


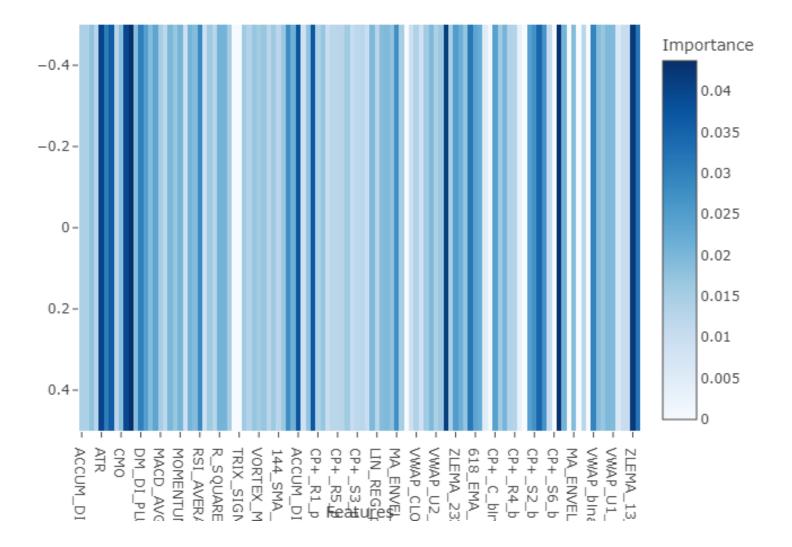


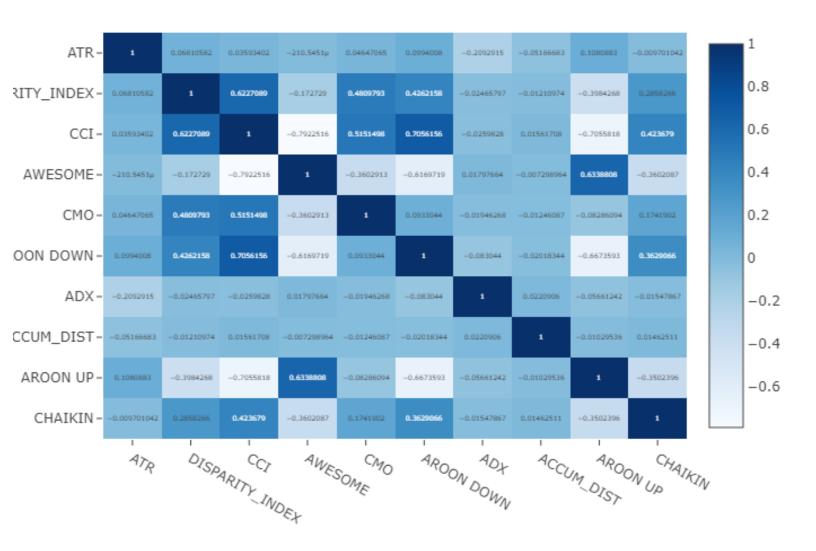




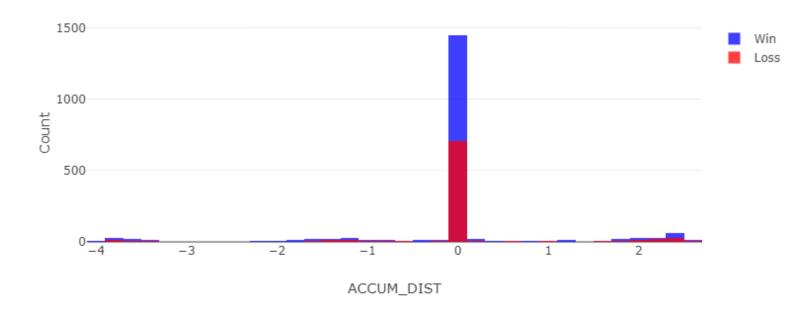




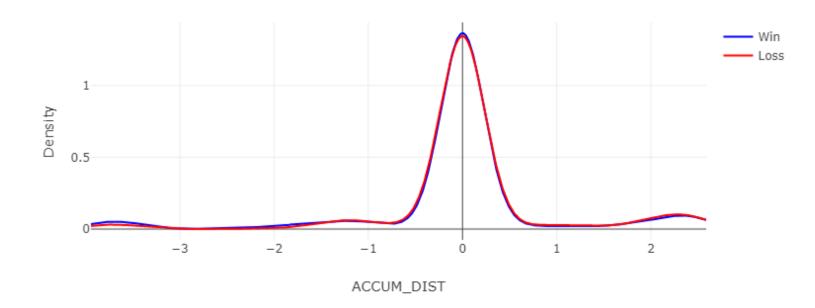




Distribution of ACCUM_DIST for Winning and Losing Trades



KDE Plot with Optimal Win Ranges for ACCUM_DIST



Mean Indicator Values for Losses

