Classification Report precision recall f1-score support

0 0.88 0.88 0.88 1578
1 0.47 0.48 0.48 358

accuracy 0.80 1936
macro avg 0.68 0.68 0.68 1936
weighted avg 0.81 0.80 0.81 1936

Accuracy Accuracy: 0.8042355371900827

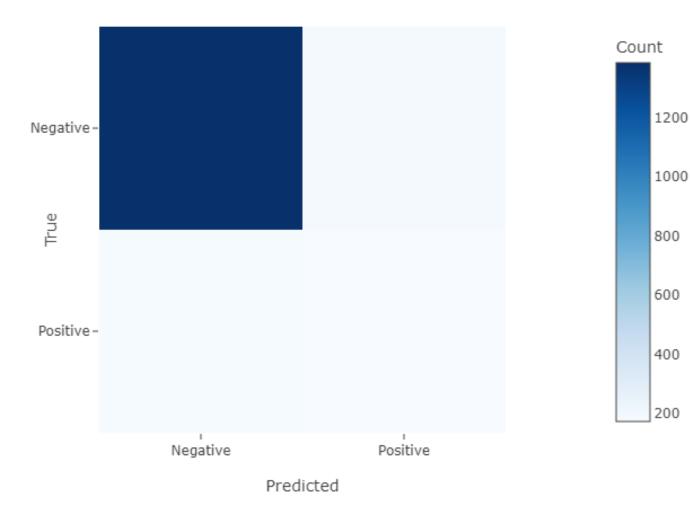
```
Optimal Win Ranges Summary feature optimal_win_range_start optimal_win_range_end 0 DM_ADX_PLOT -1.600767 -0.111497
1
      ZIGZAG_LOW_percent_away
                                            -3.413403
                                                              -2.329866
2
3
     ZIGZAG_LOW_percent_away ZIGZAG_LOW_percent_away
                                            -1.078456
                                                              0.508697
                                            6.399477
                                                              6.796265
4
      ZIGZAG_LOW_percent_away
                                            7.101487
                                                              7.834020
5
      ZIGZAG_LOW_percent_away
                                            8.932818
                                                              9.528000
6
               AWESOME
                                    -5.105035
                                                      -3.390072
7
               AWESOME
                                    -1.145029
                                                      0.860958
8
                                    4.114191
               AWESOME
                                                      5.278287
9
       VWAP_CLOUD_LOW_binary
                                            -1.696919
                                                              -1.614951
       VWAP_CLOUD_LOW_binary
10
                                             -0.795273
                                                               -0.055152
       VWAP_CLOUD_LOW_binary
11
                                             0.523445
                                                               0.711489
12 500P_BOLT_UPPER_percent_away
                                               -4.690767
                                                                 -4.348058
13 500P_BOLL_UPPER_percent_away
14 500P_BOLL_UPPER_percent_away
                                               -2.448880
                                                                 -1.413613
                                               -0.885271
                                                                  0.199974
15 500P_BOLL_UPPER_percent_away
                                                0.328490
                                                                  1.328057
16 500P_BOLL_UPPER_percent_away
                                                2.006335
                                                                  2.441861
17
               AROON UP
                                    -1.501663
                                                      -1.325946
               AROON UP
18
                                    -1.169056
                                                      0.286886
19
               AROON UP
                                     1.156058
                                                      1.633004
20
            144_SMA_binary
                                     -1.052598
                                                       -0.856980
21
            144_SMA_binary
                                     -0.327181
                                                        0.316728
22
            144_SMA_binary
                                      0.811886
                                                        0.983052
23
             DM DI MINUS
                                     -3.346628
                                                       -3.017970
24
             DM DI MINUS
                                     -1.558341
                                                       -0.939690
             DM DI MINUS
25
                                      0.094616
                                                        2.530554
26
             DM DI MINUS
                                      2.665883
                                                        3.303867
27
             DM_DI_MINUS
                                      4.309174
                                                        5.865467
       VWAP_CLOUD_HIGH_binary VWAP_CLOUD_HIGH_binary
28
                                             -0.595615
                                                               -0.460480
29
                                             0.471949
                                                               1.493568
30
       VWAP CLOUD HIGH binary
                                             1.898972
                                                               2.104377
31
                  ADX
                                -1.600767
                                                  -0.111497
```

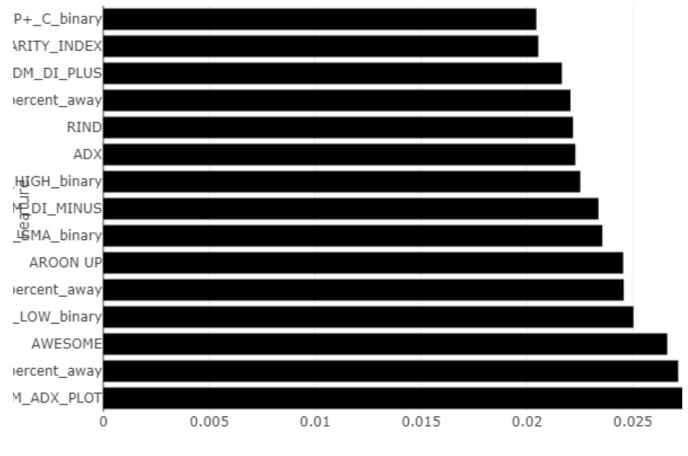
Loss Mitigation Analysis		:	050/	500/	750/	
ACCUM_DIST	mean std 1844.0 -0.027273	min	25%	50%	75%	max 2.0459000 16 3.0
	.0 0.451230 1.106					
AROON DOWN	1844.0 -0.195972					
	844.0 0.048587 1					
	.0 -0.225088 9.755					
	1844.0 0.159228 1					
	0 -0.161039 1.1388	351e+00 -1.82	23532e+00 -	1.308181e+0	00 -5.4368	314e-01 1.05846
	14.0 -0.061883 1.1					
	1.0 -0.095116 9.13					
DISPARITY_INDEX						9.032749e-03 6
DM_ADX_PLOT	1844.0 0.451230					
DM_DI_MINUS	1844.0 -0.065959					
DM_DI_PLUS DYNAMIC_MOMENTUM	1844.0 -0.040339					.3413766-02 5.92 e-01 -1.288528e-
FISHER_TRANSFORM						e-01 -1.266526e- e+00 -2.158702e-
LIN_REG_SLOPE						-2.580157e-01 9
	1844.0 0.139723 °					
MACD_DEFAULT	1844.0 0.13053					
	1844.0 -0.154241 1					
MFI 1844.0	0 -0.018645 1.017	321e+00 -2.69	6376e+00 -	7.205630e-0	1 -2.4201	56e-02 6.956508
MOMENTUM	1844.0 -0.077651					
	.0 -0.018278 1.029					
	0 0.142145 1.134					
	.0 -0.184429 1.043					
RSI_AVERAGE RSI DEFAULT	1844.0 -0.020442 1844.0 -0.078664					
	.0 -0.043642 9.960					
	0.131291 1.2146					
R SQUARED	1844.0 0.288979					
STOCH_FAST_D	1844.0 -0.15872					
STOCH_FAST_K	1844.0 -0.15753					
TRIX_DEFAULT	1844.0 -0.016759					
	1844.0 -0.019302					
	344.0 -0.012426 1.0					
VOLUME_DOWN VOLUME UP	1844.0 -0.041507					-3.262925e-01 -1 9
VORTEX_MINUS						6.200378e-02 7
VORTEX_PLUS	1844.0 0.092091					
	4.0 -0.059364 9.21					
WILLIAMS_%R	1844.0 -0.157535					
144_SMA_percent_away						01 5.619446e-02
500P_BOLL_LOWER_perce						2180e-01 -1.0618
500P_BOLL_UPPER_percer						
618_EMA_percent_away						01 4.506836e-02
ACCUM_DIST_percent_awa APZ_LOW_percent_away)e-01 2.912345e -01 -5.153112e-0
APZ_UP_percent_away						01 -4.310925e-01
CP+_C_percent_away						6.782036e-02
CP+_R1_percent_away						1 4.407719e-02
CP+_R2_percent_away						1 8.710146e-03
CP+_R3_percent_away						1 1.003519e-03
CP+_R4_percent_away						1 -5.756546e-02
CP+_R5_percent_away						1 -6.208317e-02 1 -8.757638e-02
CP+_R6_percent_away CP+_S1_percent_away						1 7.127718e-02
CP+_S2_percent_away						1 8.003357e-02
CP+_S3_percent_away						1 8.583340e-02
CP+_S4_percent_away						1 8.914152e-02
CP+_S5_percent_away	1844.0 -0.0334	16 1.0077286	+00 -2.6096	603e+00 -8.5	33073e-0	1 5.318530e-02
CP+_S6_percent_away	1844.0 -0.0286	53 1.0117126	e+00 -2.4516	612e+00 -9.0)50799e-C	1 3.702320e-02
LIN_REG_percent_away						01 -4.553666e-01
LIN_REG_INTERCEPT_perc						
MA_ENVELOPES_LOWER_	_percent_away 184	4.U -U.Z1416 <i>1</i>	1.2329116	;+UU -0.5296	306+00 -	₂ .U498858-U1 -5.4

```
MA_ENVELOPES_UPPER_percent_away 1844.0 -0.214173 1.232901e+00 -6.529717e+00 -9.055749e-01 -5.5
                          1844.0 -0.000838 9.612162e-01 -1.157053e+00 -5.491684e-01 0.000000e+00 0
OBV percent away
VROC_percent_away
VWAP_percent_away
                           1844.0 0.001550 6.655408e-02 -1.258430e-14 -1.258430e-14 -1.258430e-14 -1
                           1844.0 -0.031782 9.252601e-01 -3.185986e+00 -4.830327e-01 9.967465e-02 4
VWAP_CLOUD_HIGH_percent_away
                                   1844.0 0.003287 9.447962e-01 -4.141993e+00 -2.939608e-01 5.3508
VWAP_CLOUD_LOW_percent_away
                                   1844.0 -0.073914 8.882048e-01 -1.125895e+00 -5.310723e-01 -5.0321
VWAP_L1_percent_away
                             1844.0 -0.040022 9.264032e-01 -2.605133e+00 -5.934237e-01 -2.077507e-01
                             1844.0 -0.024139 9.324867e-01 -3.312018e+00 -3.831197e-01 2.457210e-01
VWAP_U1_percent_away
VWAP_U2_percent_away
                             1844.0 -0.017406 9.402105e-01 -3.365086e+00 -4.092149e-01 2.759693e-01
ZIGZAG_HIGH_percent_away
                               1844.0 -0.343847 1.275456e+00 -8.018329e+00 -5.904840e-01 -3.235910e
ZIGZAG_LOW_percent_away
                               1844.0 0.162567 1.381108e+00 -5.717827e+00 -5.626171e-01 2.683743e-
ZLEMA_13_percent_away
                             1844.0 -0.185109 1.218666e+00 -7.432760e+00 -6.673621e-01 -3.464916e-0
ZLEMA 233 percent away
                             1844.0 0.016373 1.063199e+00 -3.300673e+00 -6.264570e-01 7.219490e-0
144_SMA_binary
                         1844.0 0.035647 1.009029e+00 -1.052598e+00 -1.052598e+00 9.830523e-01 9.8
500P_BOLL_LOWER_binary
                              1844.0 -0.003234 1.011907e+00 -1.706948e+00 -1.666973e+00 6.015816e
                              1844.0 0.001877 1.008635e+00 -6.459195e-01 -6.459195e-01 -6.459195e-0
500P_BOLL_UPPER_binary
618_EMA_binary
                         1844.0 -0.012185 1.003599e+00 -1.050493e+00 -1.050493e+00 9.636826e-01 9.6
                           1844.0 0.024932 1.034903e+00 -3.979504e-01 -3.979504e-01 -3.979504e-01 (
ACCUM_DIST_binary
APZ_LOW_binary
                         1844.0 -0.018940 1.109960e+00 -9.664393e+00 1.423905e-01 1.423905e-01 1.
APZ UP binary
                        1844.0 -0.088142 5.735187e-01 -1.251838e-01 -1.251838e-01 -1.251838e-01 -1.25
CP+ C binary
                        1844.0 -0.038702 9.996626e-01 -9.601088e-01 -9.601088e-01 -9.601088e-01 1.047
CP+_R1_binary
                        1844.0 -0.032004 9.906114e-01 -7.395103e-01 -7.395103e-01 -7.395103e-01 1.35
CP+_R2_binary
                        1844.0 -0.028924 9.835996e-01 -5.825791e-01 -5.825791e-01 -5.825791e-01 -5.82
                        1844.0 -0.013599 9.885633e-01 -4.770908e-01 -4.770908e-01 -4.770908e-01 -4.77
CP+ R3 binary
CP+ R4_binary
                        1844.0 -0.043311 9.268154e-01 -2.867971e-01 -2.867971e-01 -2.867971e-01 -2.86
CP+_R5_binary
                        1844.0 0.020362 1.133260e+00 -7.133208e-02 -7.133208e-02 -7.133208e-02 -7.13
CP+ R6 binary
                        1844.0 0.000000 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.0
CP+_S1_binary
                        1844.0 -0.027749 1.004725e+00 -1.197329e+00 -1.197329e+00 8.367968e-01 8.3
CP+_S2_binary
                        1844.0 -0.039237 1.012277e+00 -1.372600e+00 -1.372600e+00 7.310964e-01 7.3
CP+_S3_binary
                        1844.0 -0.054853 1.021654e+00 -1.512930e+00 -1.512930e+00 6.628080e-01 6.6
                        1844.0 -0.033993 1.023507e+00 -1.934949e+00 5.172109e-01 5.172109e-01 5.17
CP+ S4 binary
CP+_S5_binary
                        1844.0 0.018535 9.755540e-01 -3.134746e+00 3.201853e-01 3.201853e-01 3.20
CP+_S6_binary
                        1844.0 0.017266 9.304089e-01 -7.916921e+00 1.263117e-01 1.263117e-01 1.26
LIN_REG_binary
                        1844.0 -0.138505 1.012935e+00 -9.923751e-01 -9.923751e-01 -9.923751e-01 1.09
LIN REG INTERCEPT binary
                               1844.0 -0.144537 1.017583e+00 -9.968940e-01 -9.968940e-01 -9.968940e
MA_ENVELOPES_LOWER_binary
                                  1844.0 0.000000 0.000000e+00 0.000000e+00 0.000000e+00 0.0000
MA_ENVELOPES_MID_binary
                               1844.0 -0.144309 1.015263e+00 -9.907398e-01 -9.907398e-01 -9.907398e
MA ENVELOPES UPPER binary
                                  1844.0 0.000000 0.000000e+00 0.000000e+00 0.000000e+00 0.00000
OBV_binary
                      1844.0 -0.000705 9.825066e-01 -4.038218e-01 -4.038218e-01 -4.038218e-01 6.4218
VROC_binary
                       1844.0 0.009506 4.082061e-01 -1.751510e-14 -1.751510e-14 -1.751510e-14 -1.751
VWAP_binary
                        1844.0 -0.046218 9.980927e-01 -9.522755e-01 -9.522755e-01 -9.522755e-01 1.061
                               1844.0 -0.116782 9.670079e-01 -5.956147e-01 -5.956147e-01 -5.956147e-
VWAP CLOUD HIGH binary
VWAP_CLOUD_LOW_binary
                               1844.0 -0.065526 1.082332e+00 -1.696919e+00 -1.696919e+00 7.114885
VWAP_L1_binary
                         1.356148e-01 6.356148e-01 -2.247417e+00 -8.059012e-01
VWAP_U1_binary
                         1844.0 -0.039653 9.816842e-01 -6.037807e-01 -6.037807e-01 -6.037807e-01 1.5
VWAP_U2_binary
                         1844.0 -0.062825 9.018202e-01 -3.103492e-01 -3.103492e-01 -3.103492e-01 -3.1
ZIGZAG_HIGH_binary
                           1844.0 -0.053737 9.360243e-01 -2.801447e-01 -2.801447e-01 -2.801447e-01 -2
                           1844.0 -0.036998 1.080293e+00 -3.584554e+00 3.200567e-01 3.200567e-01
ZIGZAG_LOW_binary
                         1844.0 -0.135204 1.004148e+00 -1.001229e+00 -1.001229e+00 -1.001229e+00 1
ZLEMA 13 binary
```

1844.0 0.059164 1.015257e+00 -1.053227e+00 -1.053227e+00 1.000724e+00

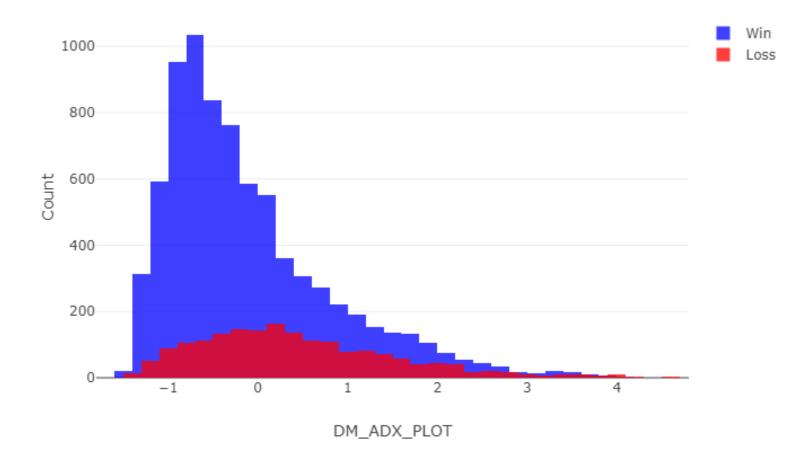
ZLEMA_233_binary



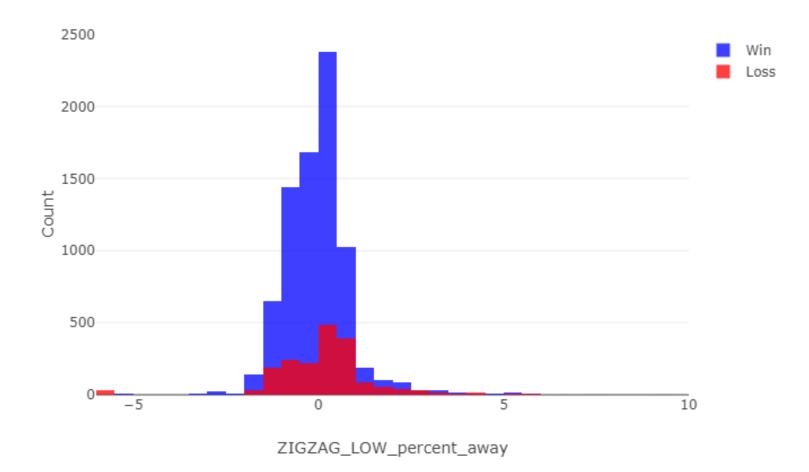


Importance

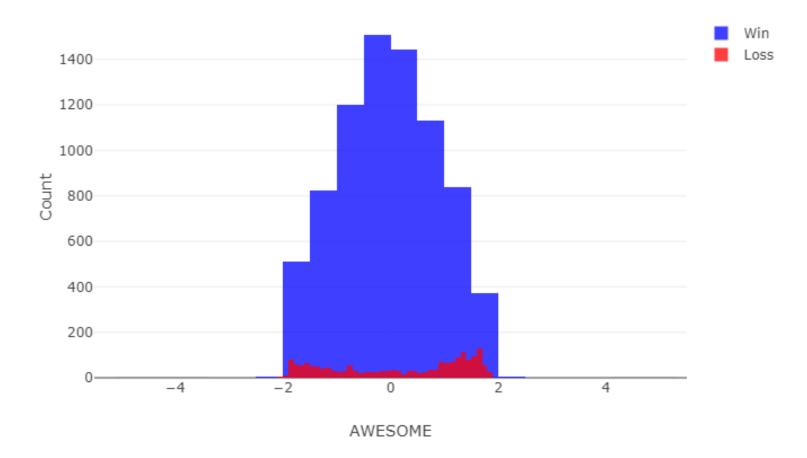
Optimal Win Ranges for DM_ADX_PLOT (, Neural Network)



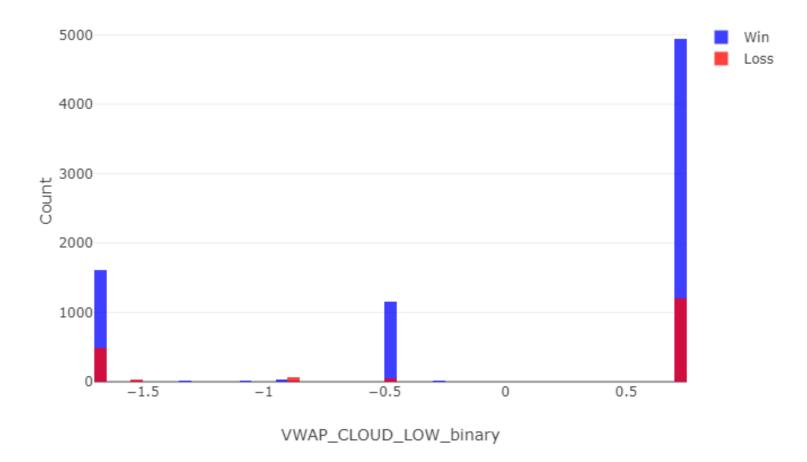
Optimal Win Ranges for ZIGZAG_LOW_percent_away (, Neural Network)



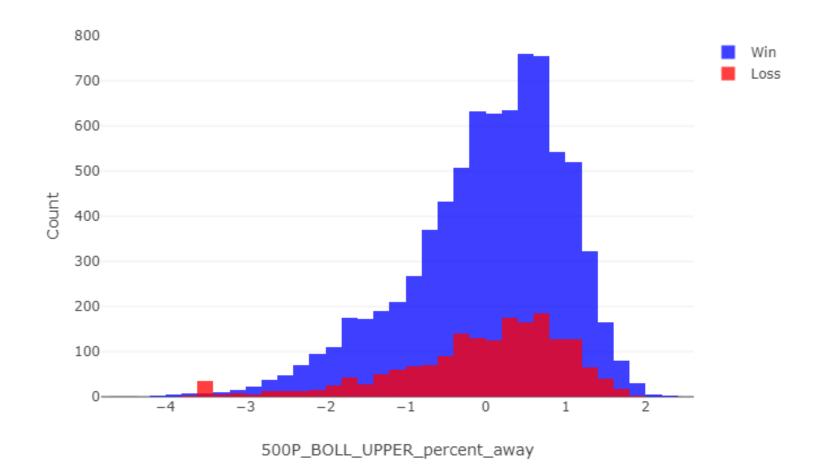
Optimal Win Ranges for AWESOME (, Neural Network)



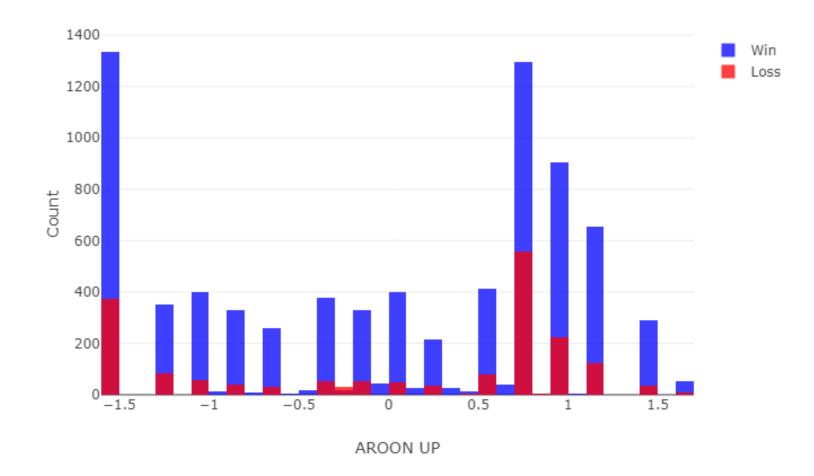
Optimal Win Ranges for VWAP_CLOUD_LOW_binary (, Neural Network)



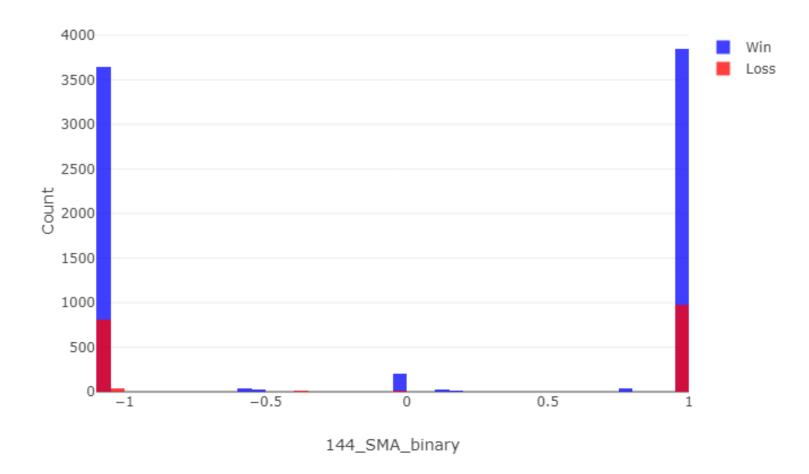
Optimal Win Ranges for 500P_BOLL_UPPER_percent_away (, Neural Network)



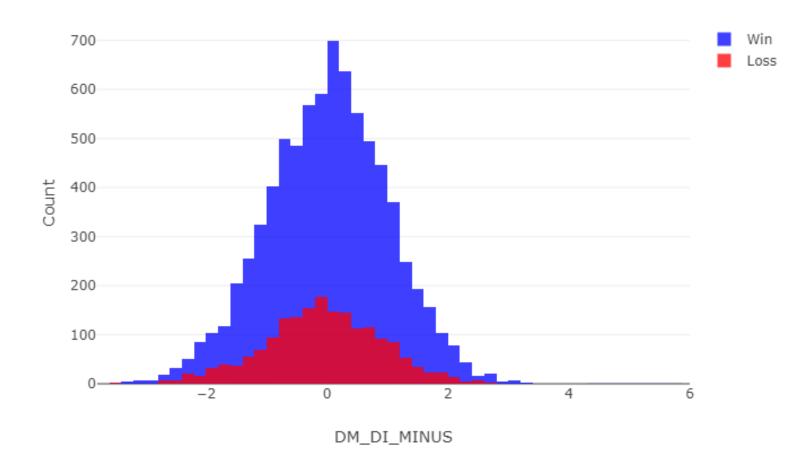
Optimal Win Ranges for AROON UP (, Neural Network)



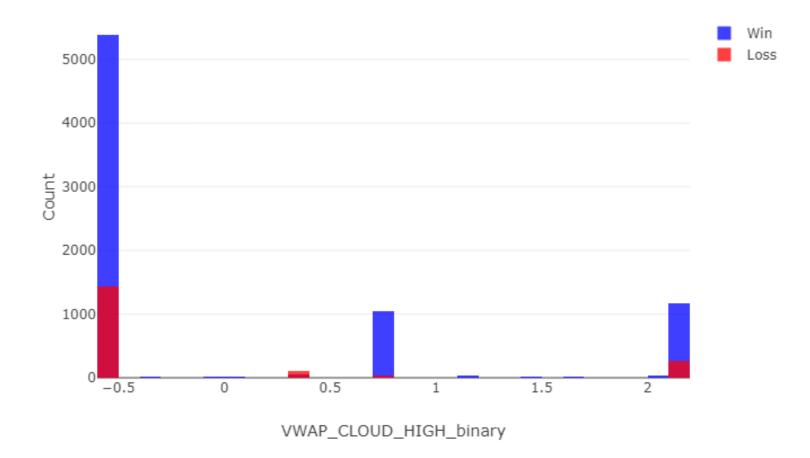
Optimal Win Ranges for 144_SMA_binary (, Neural Network)



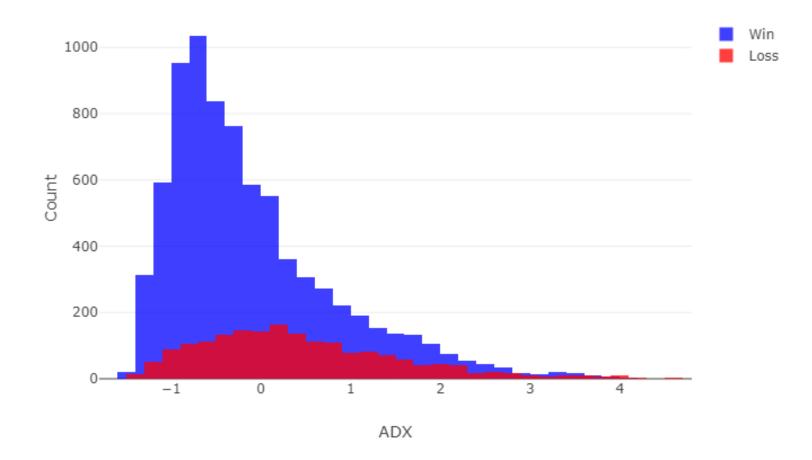
Optimal Win Ranges for DM_DI_MINUS (, Neural Network)

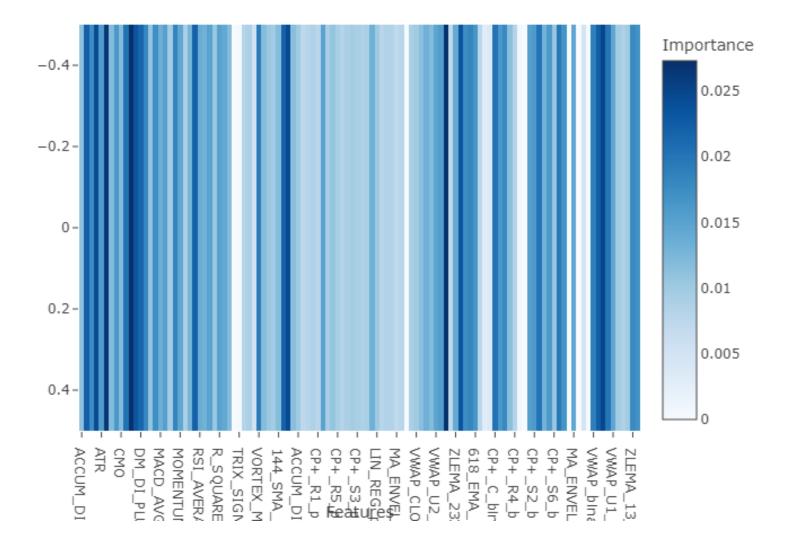


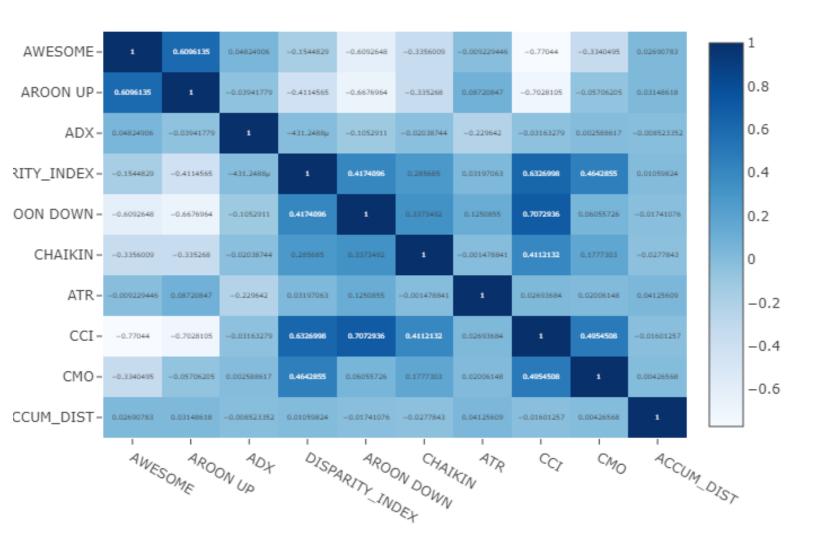
Optimal Win Ranges for VWAP_CLOUD_HIGH_binary (, Neural Network)



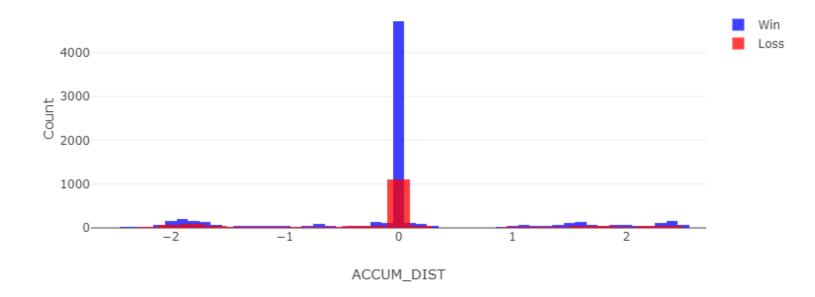
Optimal Win Ranges for ADX (, Neural Network)



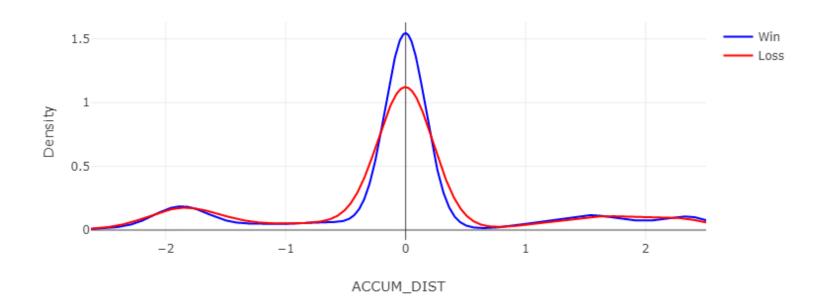




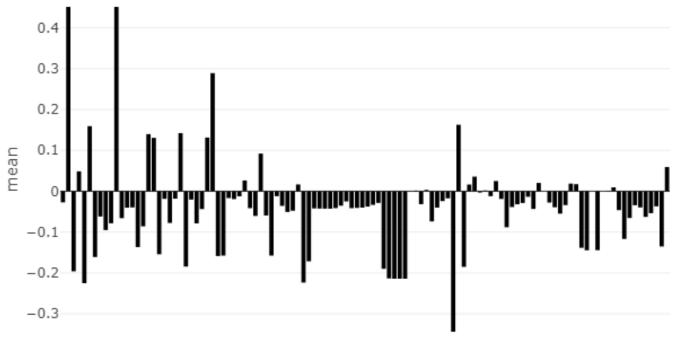
Distribution of ACCUM_DIST for Winning and Losing Trades



KDE Plot with Optimal Win Ranges for ACCUM_DIST



Mean Indicator Values for Losses



ZIGZAG_LO
VWAP_U1_b
VWAP_CLOL
OBV_binary
MA_ENVELO
CCP+_S6_bir
CCP+_R6_bir
CCP+_R6_bir
CCP+_R3_bir
CCP+_R3_bir
ZLEMA_13_
VWAP_U2_p
VWAP_CLOL
VROC_perce
MA_ENVELO
LIN_REG_PERCE
CCP+_R4_pei
CCP+_R4_pe