

Classification Report				
	precision	recall	f1-score	support
0	0.54	0.59	0.57	123
1	0.41	0.36	0.38	97
accuracy			0.49	220
macro avg	0.48	0.48	0.48	220
weighted avg	0.48	0.49	0.49	220

Accuracy
Accuracy: 0.4909090909090909

Optimal Win Ranges Summary for Long Trades
Empty DataFrame
Columns: []
Index: []

Optimal Win Ranges Summary for Short Trades

	feature	trade_type	optimal_win_range_start	optimal_win_range_end
0	144_SMA_percent_away	SE	-3.161652	-0.621932
1	144_SMA_percent_away	SE	1.367308	3.087562
2	MFI	SE	-2.425629	-2.310781
3	MFI	SE	-0.280063	2.789506
4	VROC	SE	-0.222479	0.673771
5	VROC	SE	1.626037	2.194195
6	VROC	SE	2.682331	3.394530
7	VROC	SE	4.994976	6.419374
8	VROC	SE	7.059552	7.251606
9	DM_DI_PLUS	SE	-3.428033	-1.803533
10	DM_DI_PLUS	SE	1.070583	3.511498
11	DM_DI_PLUS	SE	4.836090	4.894405
12	CP_R6_percent_away	SE	-2.577919	-1.960676
13	CP_R6_percent_away	SE	0.860316	2.239467
14	APZ_UPPER_percent_away	SE	-3.606547	-1.586892
15	APZ_UPPER_percent_away	SE	-0.714768	0.088503
16	APZ_UPPER_percent_away	SE	1.018003	7.604832
17	62_ZLEMA_percent_away	SE	-2.465033	-1.143914
18	62_ZLEMA_percent_away	SE	0.305958	2.405194
19	62_ZLEMA_percent_away	SE	2.836237	3.127331
20	ADX	SE	-1.300359	-1.109985
21	ADX	SE	-0.471312	-0.145834
22	ADX	SE	0.824458	1.119230
23	ADX	SE	2.488693	4.834590
24	382_EMA_percent_away	SE	-3.295275	-3.040495
25	382_EMA_percent_away	SE	-2.734759	-0.600977
26	382_EMA_percent_away	SE	0.628336	1.048723
27	382_EMA_percent_away	SE	1.583761	3.067854
28	VOLUME_DOWN	SE	-0.577276	-0.011480
29	VOLUME_DOWN	SE	2.038612	3.743347
30	VOLUME_DOWN	SE	4.500191	5.102727
31	VOLUME_DOWN	SE	6.542934	6.763374

Optimal Win Ranges Summary for Both Long and Short Trades			
	feature	trade_type	optimal_win_range_start optimal_win_range_end
0	144_SMA_percent_away		-3.161652 -0.621932
1	144_SMA_percent_away		1.367308 3.087562
2	MFI		-2.425629 -2.310781
3	MFI		-0.280063 2.789506
4	VROC		-0.222479 0.673771
5	VROC		1.626037 2.194195
6	VROC		2.682331 3.394530
7	VROC		4.994976 6.419374
8	VROC		7.059552 7.251606
9	DM_DI_PLUS		-3.428033 -1.803533
10	DM_DI_PLUS		1.070583 3.511498
11	DM_DI_PLUS		4.836090 4.894405
12	CP_R6_percent_away		-2.577919 -1.960676
13	CP_R6_percent_away		0.860316 2.239467
14	APZ_UPPER_percent_away		-3.606547 -1.586892
15	APZ_UPPER_percent_away		-0.714768 0.088503
16	APZ_UPPER_percent_away		1.018003 7.604832
17	62_ZLEMA_percent_away		-2.465033 -1.143914
18	62_ZLEMA_percent_away		0.305958 2.405194
19	62_ZLEMA_percent_away		2.836237 3.127331
20	ADX		-1.300359 -1.109985
21	ADX		-0.471312 -0.145834
22	ADX		0.824458 1.119230
23	ADX		2.488693 4.834590
24	382_EMA_percent_away		-3.295275 -3.040495
25	382_EMA_percent_away		-2.734759 -0.600977
26	382_EMA_percent_away		0.628336 1.048723
27	382_EMA_percent_away		1.583761 3.067854
28	VOLUME_DOWN		-0.577276 -0.011480
29	VOLUME_DOWN		2.038612 3.743347
30	VOLUME_DOWN		4.500191 5.102727
31	VOLUME_DOWN		6.542934 6.763374

Loss Mitigation Analysis

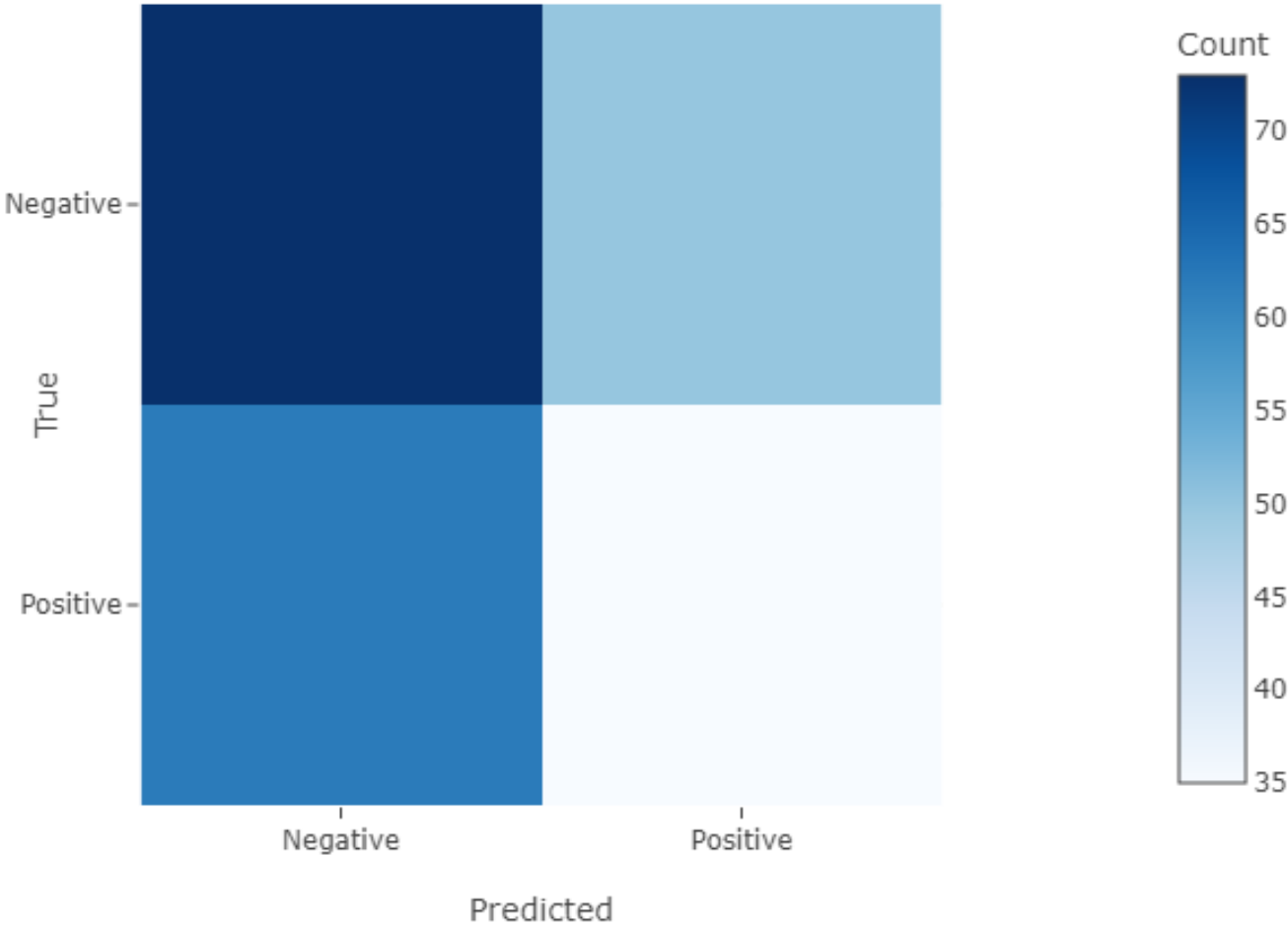
	count	mean	std	min	25%	50%	75%	max	
ADX	577.0	-0.045160	0.897373	-1.207930	-0.614572	-0.277868	0.244519	4.294047	
AROON_DOWN	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
AROON_UP	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
ATR	577.0	0.018968	1.010754	-2.440687	-0.772784	-0.158293	0.661027	2.972683	
AWESOME	577.0	-0.021330	0.991110	-2.454391	-0.681740	-0.036049	0.561685	1.984944	
CCI	577.0	0.005941	0.993115	-1.599027	-1.001094	0.139811	0.732564	2.353140	
CHAIKIN	577.0	-0.003597	0.959277	-4.985227	-0.382322	0.102035	0.418541	3.708205	
CMO	577.0	-0.035411	1.013506	-2.650823	-0.690839	-0.241272	0.657054	2.559629	
DISPARITY_INDEX	577.0	-0.011408	0.974135	-2.424537	-0.639821	0.252536	0.252536	2.9296	
DM_ADX_PLOT	577.0	-0.045160	0.897373	-1.207930	-0.614572	-0.277868	0.244519	4.2940	
DM_DI_MINUS	577.0	0.038217	0.980847	-3.377797	-0.529773	0.065723	0.723358	3.42121	
DM_DI_PLUS	577.0	-0.022904	0.962877	-2.761670	-0.677516	-0.074955	0.633941	4.780982	
DYNAMIC_MOMENTUM	577.0	-0.005569	0.989306	-1.460702	-0.880170	0.105206	0.828961	2.	
FISHER_TRANSFORM	577.0	-0.020141	0.987835	-1.851372	-1.047846	0.126540	0.888860	2.0	
LIN_REG_SLOPE	577.0	-0.025928	0.995558	-2.325037	-1.123786	-0.259728	0.983672	1.9741	
MACD_AVG	577.0	-0.010752	0.991004	-2.344857	-0.691659	0.030307	0.619739	2.401984	
MACD_DEFAULT	577.0	-0.011575	0.987979	-2.362444	-0.695051	-0.021500	0.600240	2.479	
MACD_DIFF	577.0	0.007867	1.000940	-2.095056	-0.696515	-0.104340	0.777622	2.579346	
MFI	577.0	-0.082757	0.992337	-2.425629	-0.882009	-0.138229	0.674903	2.424261	
MOMENTUM	577.0	-0.039041	1.029725	-3.435090	-0.327107	-0.327107	0.560888	2.33687	
PFE	577.0	-0.020244	0.996399	-2.435360	-0.731418	0.161123	0.485684	1.662215	
RIND	577.0	0.016449	1.021488	-1.394995	-0.856760	-0.260989	0.718043	3.077000	
RSI_AVERAGE	577.0	-0.011023	0.975471	-1.766481	-0.672436	-0.250035	0.581649	2.81434	
RSI_DEFAULT	577.0	-0.019866	0.970761	-1.792564	-0.648805	-0.128612	0.851752	2.83248	
RSS	577.0	-0.014990	1.011232	-3.428535	-0.726690	0.094683	0.647910	2.378157	
RVI	577.0	-0.009895	0.981693	-2.511552	-0.711062	0.070599	0.611279	2.335509	
R_SQUARED	577.0	-0.000181	1.008271	-2.161233	-0.820783	0.251576	1.100528	1.10052	
STOCH_FAST_D	577.0	0.024516	1.011195	-1.565444	-0.642292	-0.171297	0.812896	2.3125	
STOCH_FAST_K	577.0	0.000151	0.983437	-1.557978	-0.618696	-0.010209	0.823971	2.1958	
TRIX_DEFAULT	577.0	-0.039627	0.920870	-0.250862	-0.250862	-0.250862	-0.250862	4.00086	
TRIX_SIGNAL	577.0	-0.038534	0.922557	-4.414297	-0.238748	-0.238748	-0.238748	3.936801	
VOLUME	577.0	0.046011	1.035807	-0.577276	-0.531176	-0.445757	0.205058	6.173573	
VOLUME_DOWN	577.0	0.046011	1.035807	-0.577276	-0.531176	-0.445757	0.205058	6.173	
VOLUME_UP	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
VORTEX_MINUS	577.0	0.000970	0.992842	-2.873855	-0.795315	-0.201446	0.392423	3.3617	
VORTEX_PLUS	577.0	-0.016028	1.010693	-2.545418	-0.706417	0.213083	0.672834	2.0520	
VROC	577.0	-0.002071	0.987800	-0.742568	-0.623399	-0.383361	0.219406	6.891437	
WILLIAMS_%R	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
DIV_BULL	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
DIV_BEAR	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CHOP_INDEX	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
AROON_UP	577.0	-0.043393	1.033385	-2.529763	0.245041	0.497199	0.497199	1.001870	
AROON_DOWN	577.0	0.022547	1.011705	-0.975000	-0.975000	-0.196877	0.840499	2.3967	
ACCUM_DIST	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
OBV	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
WILLIAMS_R	577.0	0.000151	0.983436	-1.557980	-0.618692	-0.010202	0.823983	2.195851	
CHANDE_CMO	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
TSI	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
1000_SMA_percent_away	577.0	0.027516	0.976879	-2.626637	-0.568170	0.023507	0.714102	2.35	
144_SMA_percent_away	577.0	-0.002055	0.951458	-2.715178	-0.627684	-0.042265	0.619287	2.90	
14_P_MA_ENVELOPES_LOWER_percent_away	577.0	-0.035861	0.974686	-3.113963	-0.812786	-0.187915	0.		
14_P_MA_ENVELOPES_MID_percent_away	577.0	-0.035861	0.974690	-3.115049	-0.811569	-0.188451	0.78		
14_P_MA_ENVELOPES_UPPER_percent_away	577.0	-0.035934	0.974651	-3.116061	-0.814342	-0.186204	0.		
236_EMA_percent_away	577.0	0.011530	0.951757	-2.882466	-0.581137	0.025999	0.643334	3.28	
382_EMA_percent_away	577.0	0.017171	0.958051	-2.893082	-0.538083	0.065143	0.635821	3.06	
618_EMA_percent_away	577.0	0.020681	0.965074	-2.694009	-0.534439	0.047748	0.675711	2.51	
62_ZLEMA_percent_away	577.0	-0.018542	0.968321	-2.327425	-0.709848	0.022805	0.708228	2.6	
8_ZLEMA_percent_away	577.0	-0.027346	1.000855	-2.431457	-0.739178	0.142774	0.883583	2.36	
ACCUM_DIST_percent_away	577.0	-0.025563	1.021591	-1.639144	-1.122445	0.114464	0.538730	2.	
APZ_LOW_percent_away	577.0	-0.051493	0.941283	-4.399477	-0.659990	-0.170972	0.456186	5.5	
APZ_UPPER_percent_away	577.0	-0.027590	0.933299	-3.859004	-0.692519	0.026606	0.587658	3.	
BOLLI_500_P_LOWER_percent_away	577.0	0.010165	0.967826	-2.199481	-0.691025	-0.089848	0.60512		
BOLLI_500_P_MID_percent_away	577.0	0.015210	0.972720	-2.897480	-0.556830	0.074490	0.656443		

Loss Mitigation Analysis

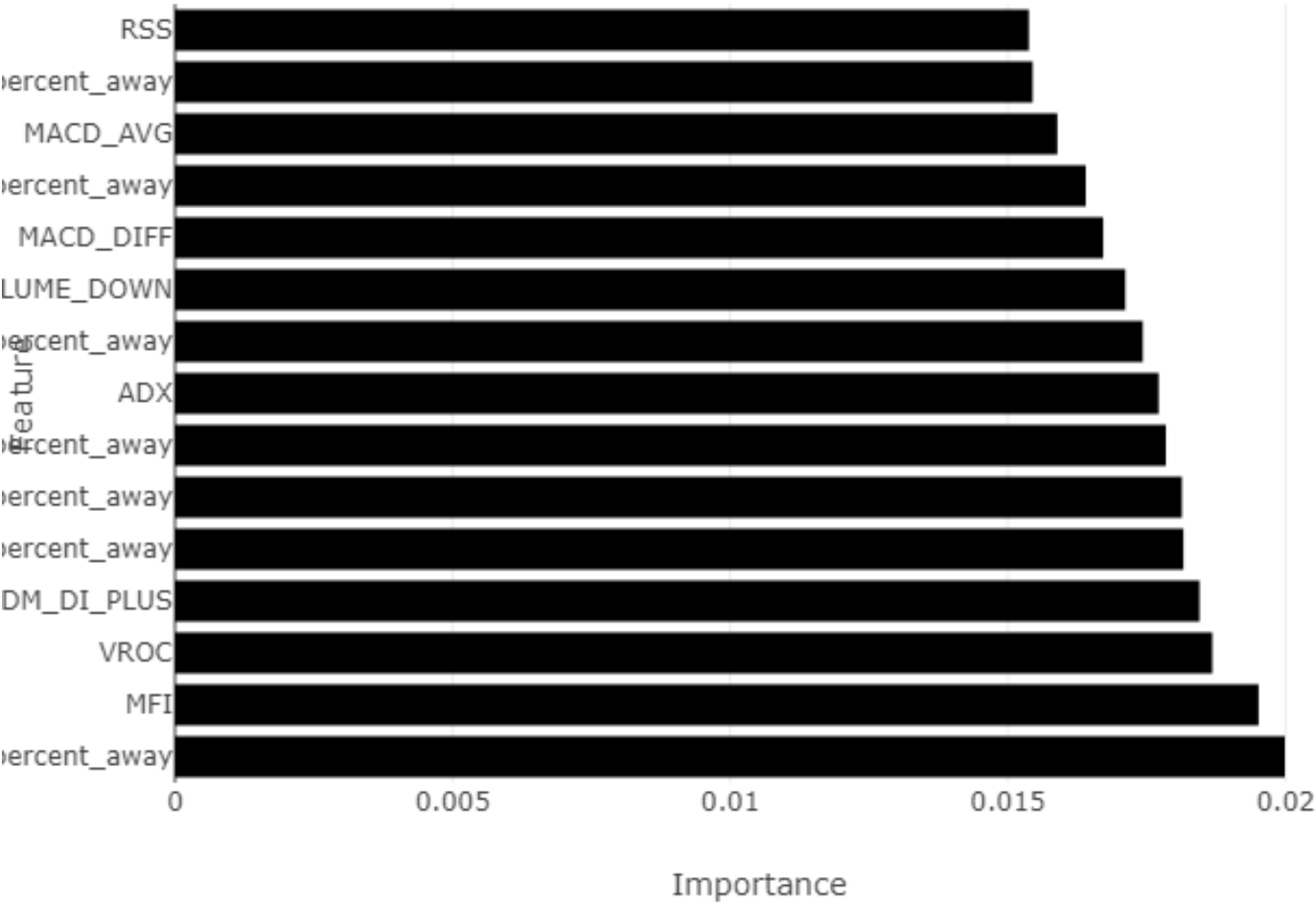
BOLLI_500_P_UPPER_percent_away	577.0	0.018921	0.980052	-3.567943	-0.388376	0.192076	0.677463	0.000000
CP+_C_percent_away	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R1_percent_away	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R2_percent_away	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R3_percent_away	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R4_percent_away	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R5_percent_away	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R6_percent_away	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S1_percent_away	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S2_percent_away	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S3_percent_away	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S4_percent_away	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S5_percent_away	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S6_percent_away	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
LIN_REG_percent_away	577.0	0.004675	0.981274	-2.659256	-0.720447	0.093989	0.649888	3.561271
LIN_REG_INTERCEPT_percent_away	577.0	-0.032796	0.989402	-1.904635	-1.020592	-0.273188	0.914344	0.000000
OBV_percent_away	577.0	-0.026473	1.022014	-1.651545	-1.123844	0.144497	0.550280	2.339515
VROC_percent_away	577.0	-0.047008	1.261289	-19.504584	0.026604	0.026604	0.026604	10.641266
VWAP_percent_away	577.0	0.018548	0.947845	-3.771310	-0.331753	0.079158	0.496206	3.233110
VWAP_CLOUD_HIGH_percent_away	577.0	0.039142	0.947256	-4.904189	-0.095442	0.479039	0.611266	0.000000
VWAP_CLOUD_LOW_percent_away	577.0	-0.020290	0.946636	-0.674806	-0.534061	-0.503915	0.104626	0.000000
VWAP_L1_percent_away	577.0	0.008851	0.940970	-2.445904	-0.528169	-0.164148	0.439427	3.791266
VWAP_L2_percent_away	577.0	-0.001300	0.943000	-1.523110	-0.691658	-0.262054	0.392405	3.941266
VWAP_U1_percent_away	577.0	0.024418	0.957859	-4.468947	-0.373869	0.276693	0.585204	2.441266
VWAP_U2_percent_away	577.0	0.026984	0.964860	-4.671259	-0.348359	0.368834	0.630414	1.641266
ZIGZAG_HIGH_percent_away	577.0	-0.026272	0.963712	-3.754297	-0.652467	-0.158528	0.614730	5.000000
ZIGZAG_LOW_percent_away	577.0	-0.046511	0.904825	-0.950179	-0.486126	-0.292055	0.024550	6.000000
VOLUME_UP_percent_away	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP__R6_percent_away	577.0	-0.040338	0.983710	-2.577919	-0.718755	-0.095648	0.740898	2.231266
CP__S6_percent_away	577.0	0.033920	1.012668	-2.164926	-0.883260	-0.054810	0.837154	2.634126
CHAIKIN_percent_away	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
BOLLI_500_UPPER_percent_away	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP__S3_percent_away	577.0	0.009907	0.982523	-2.701189	-0.544520	0.040836	0.620053	2.522126
BOLLI_500_LOWER_percent_away	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
14_MA_ENVELOPES_UPPER_percent_away	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
14_MA_ENVELOPES_LOWER_percent_away	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
14_MA_ENVELOPES_MID_percent_away	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP__S2_percent_away	577.0	0.006702	0.978858	-2.771073	-0.491176	0.042777	0.572292	2.446126
VOLUME_DOWN_percent_away	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP__S1_percent_away	577.0	0.003292	0.975249	-2.829415	-0.445750	0.040270	0.490954	2.353126
CP__R5_percent_away	577.0	-0.032909	0.970649	-2.868416	-0.770344	0.013371	0.700616	2.293126
CP__R4_percent_away	577.0	-0.021383	0.963106	-2.920986	-0.643375	0.035147	0.599846	2.490126
CP__R1_percent_away	577.0	-0.003947	0.968818	-2.900196	-0.434839	0.028485	0.491712	2.377126
CP__C_percent_away	577.0	-0.000276	0.971849	-2.873304	-0.418150	0.044758	0.501556	2.313126
CP__S5_percent_away	577.0	0.027179	1.004574	-2.433612	-0.843595	-0.032198	0.826460	2.705126
BOLLI_500_MID_percent_away	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP__R3_percent_away	577.0	-0.011316	0.964446	-2.896912	-0.442541	0.034260	0.514327	2.472126
VOLUME_percent_away	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP__S4_percent_away	577.0	0.018106	0.992750	-2.624481	-0.708802	0.016694	0.697738	2.661126
CP__R2_percent_away	577.0	-0.007653	0.966311	-2.908288	-0.421281	0.018718	0.490801	2.433126
1000_SMA_binary	577.0	0.507799	0.500373	0.000000	0.000000	1.000000	1.000000	1.000000
144_SMA_binary	577.0	0.379549	0.485696	0.000000	0.000000	0.000000	1.000000	1.000000
14_P_MA_ENVELOPES_LOWER_binary	577.0	1.000000	0.000000	1.000000	1.000000	1.000000	1.000000	1.000000
14_P_MA_ENVELOPES_MID_binary	577.0	0.001733	0.041631	0.000000	0.000000	0.000000	0.000000	0.000000
14_P_MA_ENVELOPES_UPPER_binary	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
236_EMA_binary	577.0	0.441941	0.497049	0.000000	0.000000	0.000000	1.000000	1.000000
382_EMA_binary	577.0	0.493934	0.500397	0.000000	0.000000	0.000000	1.000000	1.000000
618_EMA_binary	577.0	0.502600	0.500427	0.000000	0.000000	1.000000	1.000000	1.000000
62_ZLEMA_binary	577.0	0.168111	0.374289	0.000000	0.000000	0.000000	0.000000	1.000000
8_ZLEMA_binary	577.0	0.296360	0.457048	0.000000	0.000000	0.000000	1.000000	1.000000
ACCUM_DIST_binary	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
APZ_LOW_binary	577.0	1.000000	0.000000	1.000000	1.000000	1.000000	1.000000	1.000000
APZ_UPPER_binary	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
BOLLI_500_P_LOWER_binary	577.0	0.715771	0.451438	0.000000	0.000000	1.000000	1.000000	1.000000

Loss Mitigation Analysis									
BOLLI_500_P_MID_binary	577.0	0.506066	0.500397	0.000000	0.000000	1.000000	1.000000	1.000000	1.000000
BOLLI_500_P_UPPER_binary	577.0	0.237435	0.425880	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000
CP+_C_binary	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R1_binary	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R2_binary	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R3_binary	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R4_binary	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R5_binary	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R6_binary	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S1_binary	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S2_binary	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S3_binary	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S4_binary	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S5_binary	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S6_binary	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
LIN_REG_binary	577.0	0.001733	0.041631	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000
LIN_REG_INTERCEPT_binary	577.0	0.083189	0.276407	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000
OBV_binary	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
VROC_binary	577.0	0.001733	0.041631	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000
VWAP_binary	577.0	0.419411	0.493891	0.000000	0.000000	0.000000	1.000000	1.000000	1.000000
VWAP_CLOUD_HIGH_binary	577.0	0.190641	0.393148	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000
VWAP_CLOUD_LOW_binary	577.0	0.675910	0.468440	0.000000	0.000000	1.000000	1.000000	1.000000	1.000000
VWAP_L1_binary	577.0	0.686308	0.464395	0.000000	0.000000	1.000000	1.000000	1.000000	1.000000
VWAP_L2_binary	577.0	0.918544	0.273771	0.000000	1.000000	1.000000	1.000000	1.000000	1.000000
VWAP_U1_binary	577.0	0.162912	0.369605	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000
VWAP_U2_binary	577.0	0.034662	0.183081	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000
ZIGZAG_HIGH_binary	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
ZIGZAG_LOW_binary	577.0	0.982669	0.130615	0.000000	1.000000	1.000000	1.000000	1.000000	1.000000
14_MA_ENVELOPES_LOWER_binary	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
14_MA_ENVELOPES_MID_binary	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
14_MA_ENVELOPES_UPPER_binary	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
VOLUME_DOWN_binary	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP__S1_binary	577.0	0.590988	0.492078	0.000000	0.000000	1.000000	1.000000	1.000000	1.000000
BOLLI_500_MID_binary	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
BOLLI_500_UPPER_binary	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP__C_binary	577.0	0.445407	0.497442	0.000000	0.000000	0.000000	1.000000	1.000000	1.000000
VOLUME_binary	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP__R4_binary	577.0	0.081456	0.273771	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000
CP__R5_binary	577.0	0.012132	0.109569	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000
BOLLI_500_LOWER_binary	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP__S5_binary	577.0	0.930676	0.254225	0.000000	1.000000	1.000000	1.000000	1.000000	1.000000
CP__S2_binary	577.0	0.674177	0.469088	0.000000	0.000000	1.000000	1.000000	1.000000	1.000000
CP__R3_binary	577.0	0.180243	0.384723	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000
CP__S6_binary	577.0	0.998267	0.041631	0.000000	1.000000	1.000000	1.000000	1.000000	1.000000
CHAIKIN_binary	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
VOLUME_UP_binary	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP__R2_binary	577.0	0.244367	0.430084	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000
CP__R6_binary	577.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP__S4_binary	577.0	0.821490	0.383273	0.000000	1.000000	1.000000	1.000000	1.000000	1.000000
CP__S3_binary	577.0	0.719237	0.449762	0.000000	0.000000	1.000000	1.000000	1.000000	1.000000
CP__R1_binary	577.0	0.317158	0.465773	0.000000	0.000000	0.000000	1.000000	1.000000	1.000000

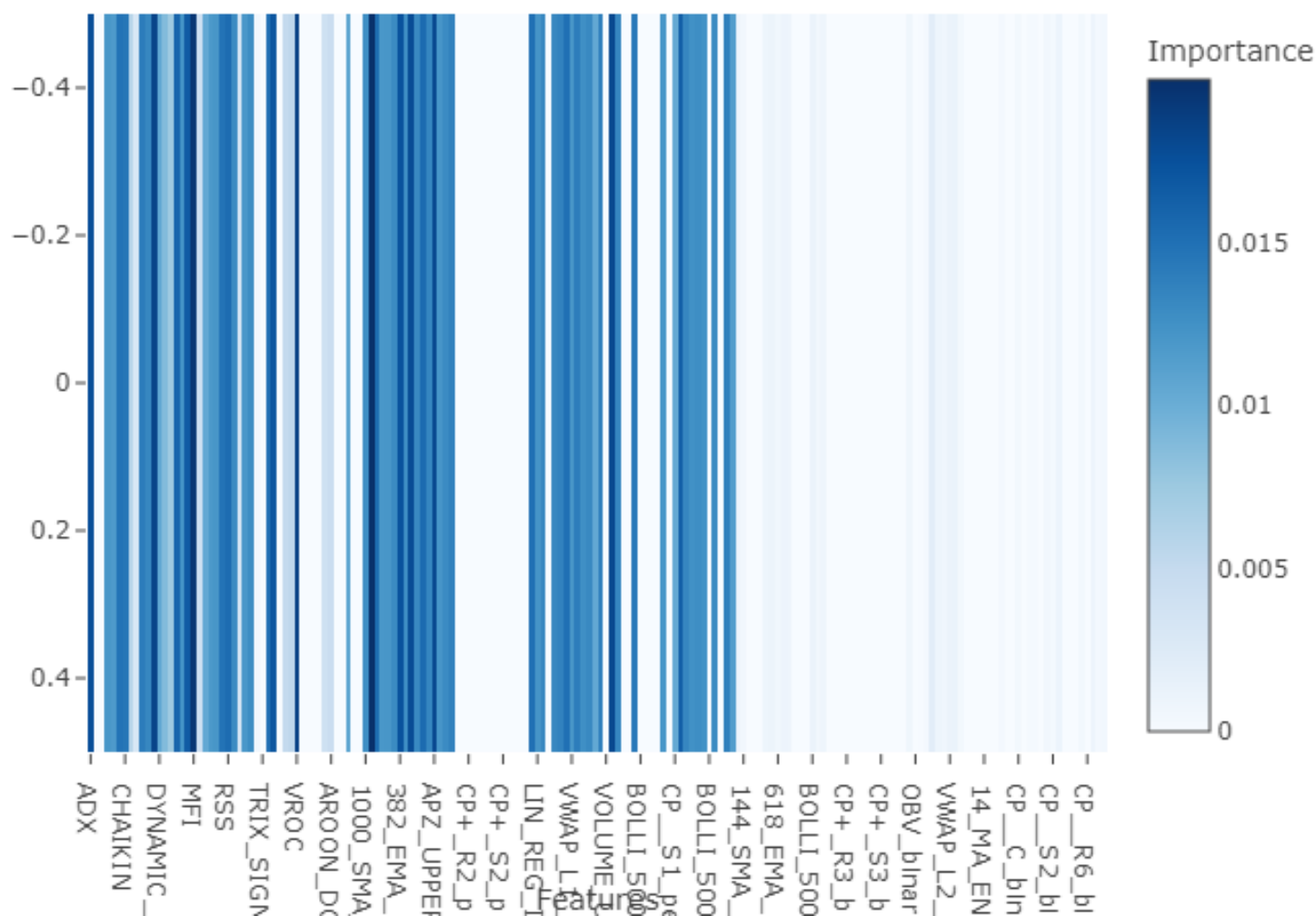
Confusion Matrix



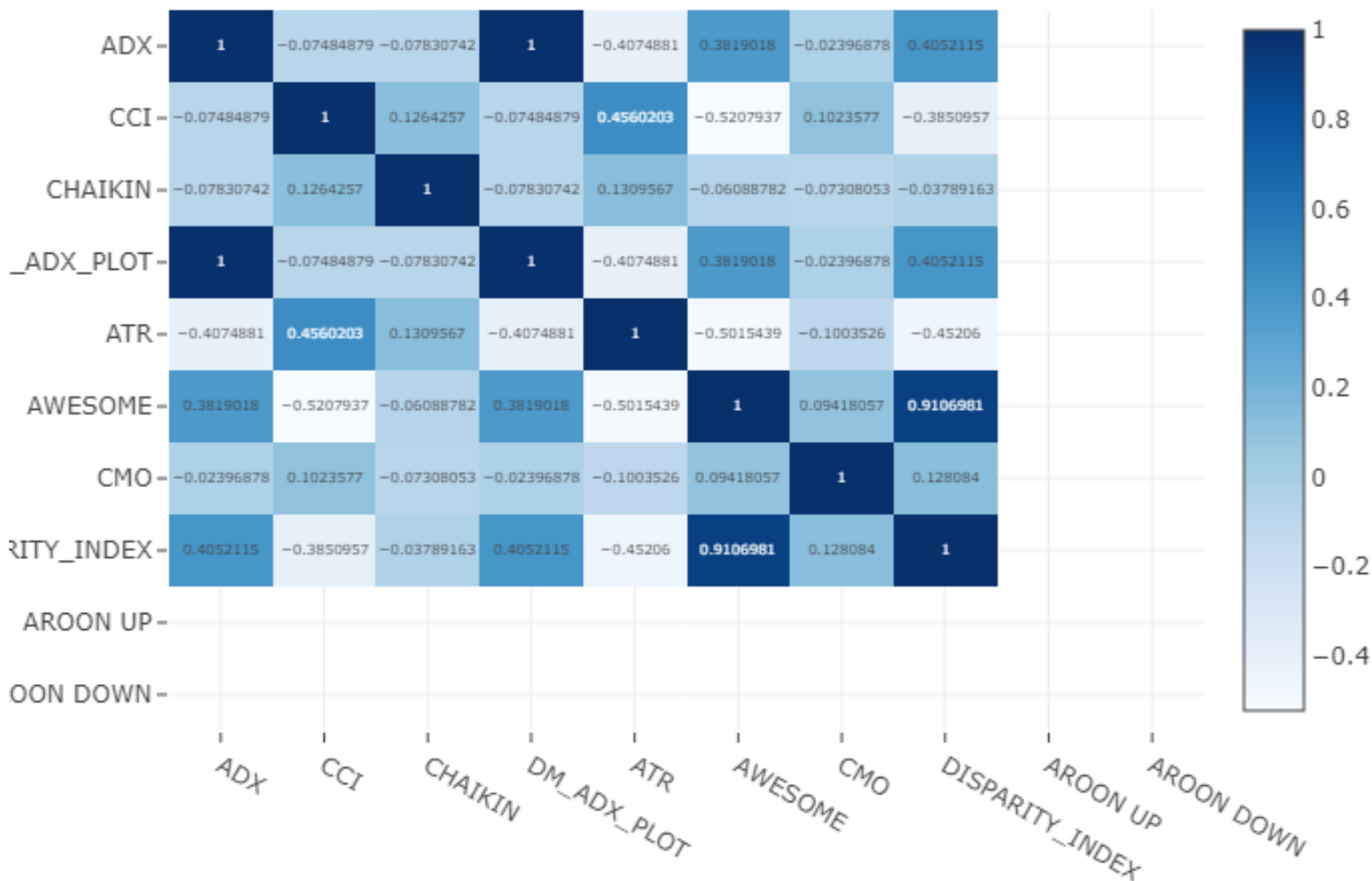
Feature Importance



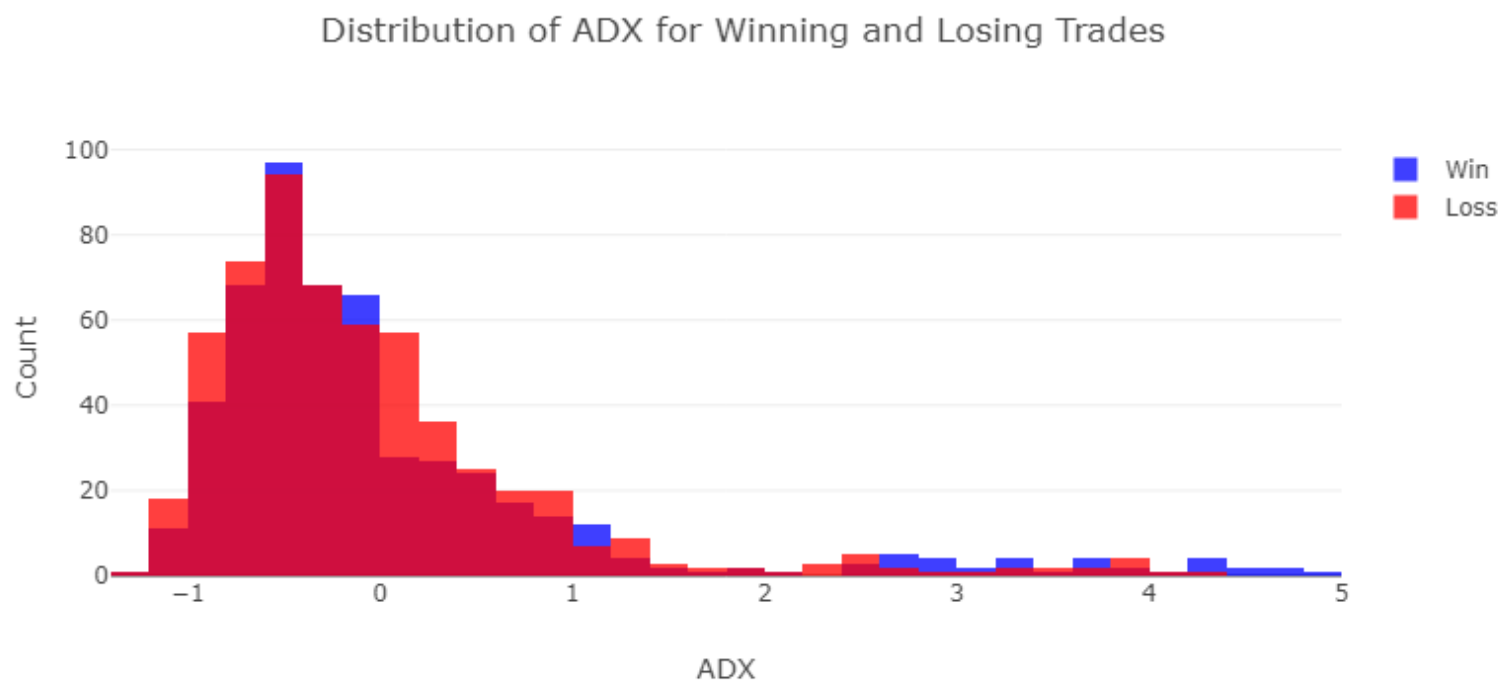
Feature Importance Heatmap



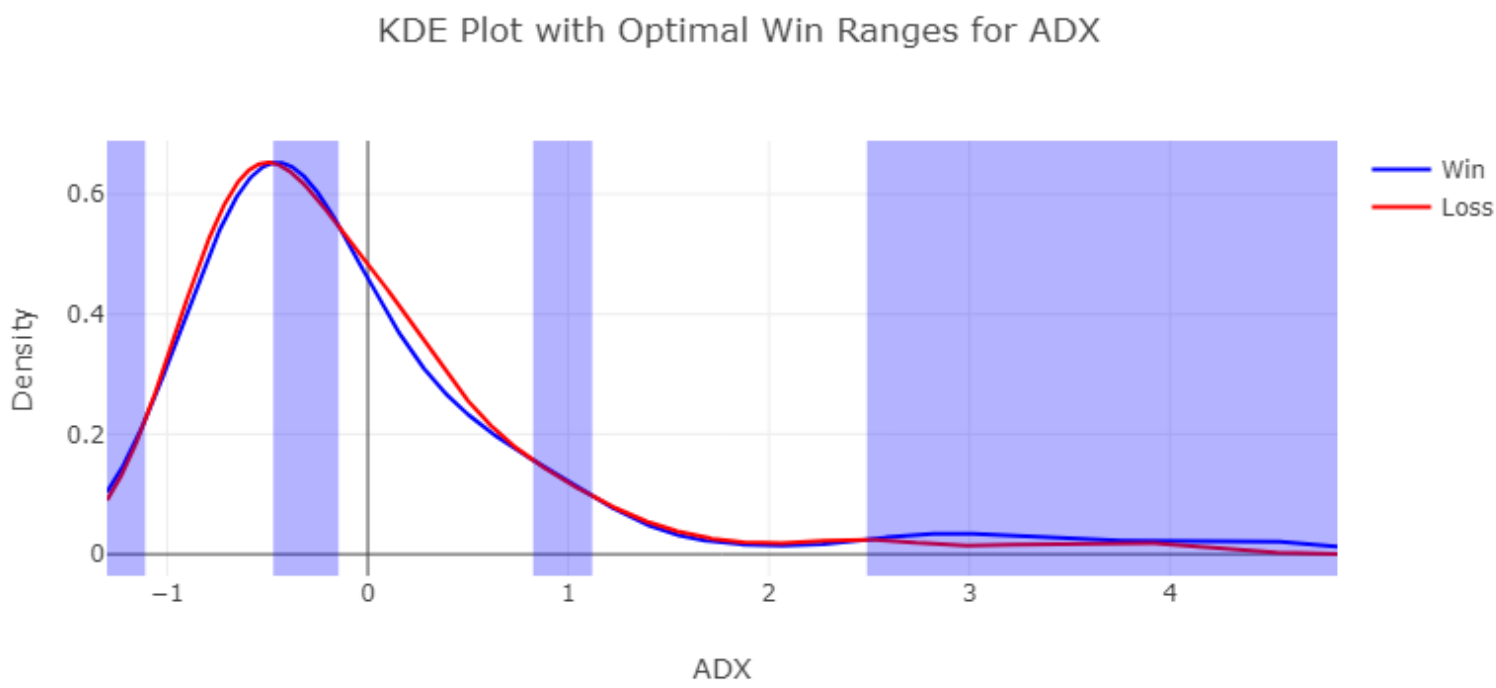
Correlation Matrix of Top Indicators



Distribution of ADX for Winning and Losing Trades



KDE Plot with Optimal Win Ranges for ADX



Mean Indicator Values for Losses

