

Classification Report				
	precision	recall	f1-score	support
0	0.64	0.88	0.74	59
1	0.12	0.03	0.05	30
accuracy			0.60	89
macro avg	0.38	0.46	0.40	89
weighted avg	0.47	0.60	0.51	89

Accuracy  
Accuracy: 0.5955056179775281

# Optimal Win Ranges Summary for Long Trades

	feature	trade_type	optimal_win_range_start	optimal_win_range_end
0	62_ZLEMA_percent_away	LE	0.312499	1.078965
1	CHAIKIN	LE	-0.504448	2.233416
2	VROC	LE	0.133962	1.032273
3	VROC	LE	1.629096	3.727207
4	VROC	LE	4.422475	5.326939
5	ADX	LE	-1.856146	-0.550502
6	DM_ADX_PLOT	LE	-1.856146	-0.550502
7	AWESOME	LE	-1.083034	-0.966055
8	AWESOME	LE	-0.845849	-0.423112
9	RIND	LE	-1.480718	-0.983992
10	RIND	LE	-0.326708	0.307998
11	CHOP_INDEX	LE	-1.472595	-1.336473
12	CHOP_INDEX	LE	-0.127389	2.526992
13	1000_SMA_percent_away	LE	-1.533229	0.221328
14	14_MA_ENVELOPES_UPPER_percent_away	LE	0.156019	0.332407
15	14_MA_ENVELOPES_UPPER_percent_away	LE	0.728300	1.030120

# Optimal Win Ranges Summary for Short Trades

	feature	trade_type	optimal_win_range_start	optimal_win_range_end
0	62_ZLEMA_percent_away	SE	-1.256695	-0.204644
1	CHAIKIN	SE	-2.835997	-1.273989
2	CHAIKIN	SE	0.443402	3.133981
3	CHAIKIN	SE	3.461103	5.333877
4	VROC	SE	-0.069845	2.508939
5	VROC	SE	4.114725	5.495974
6	ADX	SE	-1.813218	-1.390044
7	ADX	SE	-0.458162	-0.156538
8	ADX	SE	0.761839	2.031359
9	ADX	SE	2.616599	2.684127
10	DM_ADX_PLOT	SE	-1.813218	-1.390044
11	DM_ADX_PLOT	SE	-0.458162	-0.156538
12	DM_ADX_PLOT	SE	0.761839	2.031359
13	DM_ADX_PLOT	SE	2.616599	2.684127
14	AWESOME	SE	0.430561	0.514157
15	AWESOME	SE	0.777807	1.155063
16	RIND	SE	0.563846	2.777942
17	CHOP_INDEX	SE	-1.059471	0.968716
18	CHOP_INDEX	SE	1.972354	2.962053
19	1000_SMA_percent_away	SE	-1.607683	-1.287814
20	1000_SMA_percent_away	SE	-0.949492	0.250013
21	1000_SMA_percent_away	SE	1.529486	3.608630
22	14_MA_ENVELOPES_UPPER_percent_away	SE	-2.559908	-2.393736
23	14_MA_ENVELOPES_UPPER_percent_away	SE	-1.053758	-0.675453

# Optimal Win Ranges Summary for Both Long and Short Trades

	feature	trade_type	optimal_win_range_start	optimal_win_range_end	
0	62_ZLEMA_percent_away		-0.953755	-0.559722	
1	62_ZLEMA_percent_away		0.132820	1.159694	
2	CHAIKIN		0.247128	2.986776	
3	CHAIKIN		3.567418	5.276630	
4	VROC		-0.042629	3.488741	
5	VROC		4.332459	5.679687	
6	ADX		-1.856146	-0.481542	
7	ADX		1.651623	1.978034	
8	DM_ADX_PLOT		-1.856146	-0.481542	
9	DM_ADX_PLOT		1.651623	1.978034	
10	AWESOME		-1.017931	0.193253	
11	AWESOME		1.560003	2.111888	
12	RIND		-1.480718	-0.709129	
13	RIND		0.697636	2.777942	
14	CHOP_INDEX		-0.146438	0.982655	
15	CHOP_INDEX		1.589020	2.996902	
16	1000_SMA_percent_away		-1.631648	0.210620	
17	1000_SMA_percent_away		1.961127	3.577522	
18	14_MA_ENVELOPES_UPPER_percent_away			-1.105881	-0.491512
19	14_MA_ENVELOPES_UPPER_percent_away			0.073708	1.505188

Loss Mitigation Analysis

	count	mean	std	min	25%	50%	75%	max	
ADX	282.0	0.049513	9.803708e-01	-1.813218	-0.688881	-0.058818	0.623565	2.736595	
AROON_DOWN	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000	0.0
AROON_UP	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000
ATR	282.0	-0.051244	1.005115e+00	-1.628203	-0.743487	-0.271639	0.583586	6.068822	
AWESOME	282.0	0.022461	1.012966e+00	-1.226371	-1.074040	0.509661	1.050535	2.47	
CCI	282.0	0.024248	9.926805e-01	-1.531008	-1.000022	0.397235	0.924369	2.029616	
CHAIKIN	282.0	-0.086880	9.536643e-01	-2.607515	-0.566546	-0.141128	0.193678	5.33387	
CMO	282.0	0.018931	1.016797e+00	-2.904335	-0.717361	0.327454	0.634085	2.821059	
DISPARITY_INDEX	282.0	-0.035807	1.105837e+00	-2.137917	-0.419287	-0.022680	-0.022680	1.7	
DM_ADX_PLOT	282.0	0.049513	9.803708e-01	-1.813218	-0.688881	-0.058818	0.623565	2.7	
DM_DI_MINUS	282.0	-0.009301	1.010059e+00	-2.558111	-0.959825	0.219146	0.889486	1.5	
DM_DI_PLUS	282.0	0.020964	1.049450e+00	-2.615010	-0.881587	0.266020	0.813952	6.27	
DYNAMIC_MOMENTUM	282.0	-0.014189	1.013218e+00	-1.146504	-1.133790	-0.095703	1.18960		
FISHER_TRANSFORM	282.0	0.019875	1.007371e+00	-1.176961	-1.176961	0.390931	1.112134		
LIN_REG_SLOPE	282.0	0.036533	9.943955e-01	-1.830464	-1.000933	0.473789	0.888555	1.7	
MACD_AVG	282.0	0.021469	1.034753e+00	-1.326140	-0.988827	0.485495	0.904673	5.61	
MACD_DEFAULT	282.0	0.024149	1.026481e+00	-1.280418	-1.011281	0.573910	0.936463	4	
MACD_DIFF	282.0	0.007426	1.127565e+00	-13.332971	-0.483954	0.034977	0.652578	1.88	
MFI	282.0	-0.051897	1.012326e+00	-2.461947	-0.779009	-0.078979	0.710738	2.009899	
MOMENTUM	282.0	0.016977	1.016209e+00	-3.014107	-0.537387	0.453301	0.453301	2.9	
PFE	282.0	0.021011	1.014940e+00	-1.279243	-1.153357	0.343290	1.112595	1.210506	
RIND	282.0	-0.013950	9.636871e-01	-1.476926	-0.844876	-0.004671	0.601597	2.670262	
RSI_AVERAGE	282.0	0.011113	1.023039e+00	-1.626752	-0.971277	0.350446	0.936402	2.0	
RSI_DEFAULT	282.0	-0.025782	1.097254e+00	-1.712182	-0.712091	-0.087413	0.566531	9.7	
RSS	282.0	0.029850	1.004144e+00	-1.576529	-1.083029	0.234439	1.050316	1.244371	
RVI	282.0	0.020995	1.010308e+00	-1.336387	-1.035384	0.599108	0.985412	1.265072	
R_SQUARED	282.0	-0.045264	8.472418e-01	-0.235038	-0.235038	-0.235038	-0.235038	5.58	
STOCH_FAST_D	282.0	0.034432	1.002130e+00	-1.187791	-1.017111	0.878811	0.955935	1	
STOCH_FAST_K	282.0	-0.027380	9.930103e-01	-2.502313	-0.996574	-0.115166	0.974909	2.9	
TRIX_DEFAULT	282.0	0.002579	1.026418e+00	-1.377299	-1.377299	-0.037796	1.301707	3.9	
TRIX_SIGNAL	282.0	-0.013187	1.031340e+00	-1.406677	-1.406677	-0.044583	1.317511	4.04	
VOLUME	282.0	-0.049965	9.433778e-01	-1.293255	-0.680353	-0.279130	0.318899	4.7970	
VOLUME_DOWN	282.0	0.004100	1.007830e+00	-0.694961	-0.694961	-0.555363	0.417817	5	
VOLUME_UP	282.0	-0.055657	8.940046e-01	-0.655680	-0.655680	-0.655680	0.378065	5.63	
VORTEX_MINUS	282.0	-0.032101	1.007459e+00	-1.446793	-1.085350	-0.362463	1.083310	1	
VORTEX_PLUS	282.0	0.026964	1.011454e+00	-1.515470	-1.061055	0.393074	1.029256	1.5	
VROC	282.0	-0.063545	9.372147e-01	-0.838718	-0.650722	-0.347281	0.187118	5.95865	
WILLIAMS_%R	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.00	
DIV_BULL	282.0	-0.034499	1.000166e+00	-0.971073	-0.971073	-0.971073	1.029789	1.029	
DIV_BEAR	282.0	0.034499	1.000166e+00	-1.029789	-1.029789	0.971073	0.971073	0.971	
CHOP_INDEX	282.0	-0.037589	1.004762e+00	-3.903113	-0.686138	-0.447701	0.627669	3.0	
AROON_UP	282.0	0.018331	1.009562e+00	-1.223579	-1.223579	0.933510	0.933510	0.93	
AROON_DOWN	282.0	-0.035431	1.000142e+00	-1.159877	-1.159877	-0.236913	0.993562	0	
ACCUM_DIST	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.00	
OBV	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000	
WILLIAMS_R	282.0	-0.027380	9.930103e-01	-2.502313	-0.996574	-0.115166	0.974909	2.48	
CHANDE_CMO	282.0	0.018931	1.016797e+00	-2.904335	-0.717361	0.327454	0.634085	2.8	
TSI	282.0	0.024112	1.024086e+00	-1.273517	-1.087860	0.345598	1.041812	3.502282	
1000_SMA_percent_away	282.0	0.030995	1.019171e+00	-2.513960	-0.584851	0.113245	0.779873		
144_SMA_percent_away	282.0	0.004510	1.068332e+00	-2.052903	-0.850782	0.262622	0.759347		
14_P_MA_ENVELOPES_LOWER_percent_away	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.0000	
14_P_MA_ENVELOPES_MID_percent_away	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000	
14_P_MA_ENVELOPES_UPPER_percent_away	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000	
236_EMA_percent_away	282.0	0.008553	1.050629e+00	-2.365602	-0.770549	0.120690	0.741176		
382_EMA_percent_away	282.0	0.012906	1.035865e+00	-2.463096	-0.660170	0.130301	0.758667		
618_EMA_percent_away	282.0	0.020872	1.025403e+00	-2.327886	-0.611976	0.073894	0.737462		
62_ZLEMA_percent_away	282.0	-0.004513	1.088944e+00	-8.786650	-0.765457	-0.178955	0.850044		
8_ZLEMA_percent_away	282.0	-0.028149	1.026826e+00	-2.064178	-0.922537	-0.677924	0.965394		
ACCUM_DIST_percent_away	282.0	-0.012694	1.011185e+00	-1.307912	-0.707625	-0.295411	0.31496		
APZ_LOW_percent_away	282.0	-0.031379	1.026329e+00	-2.138390	-0.930057	-0.667962	0.944789		
APZ_UPPER_percent_away	282.0	-0.021981	1.030291e+00	-2.062744	-0.916172	-0.627668	0.96014		
BOLLI_500_P_LOWER_percent_away	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.0	
BOLLI_500_P_MID_percent_away	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.0000	

Loss Mitigation Analysis

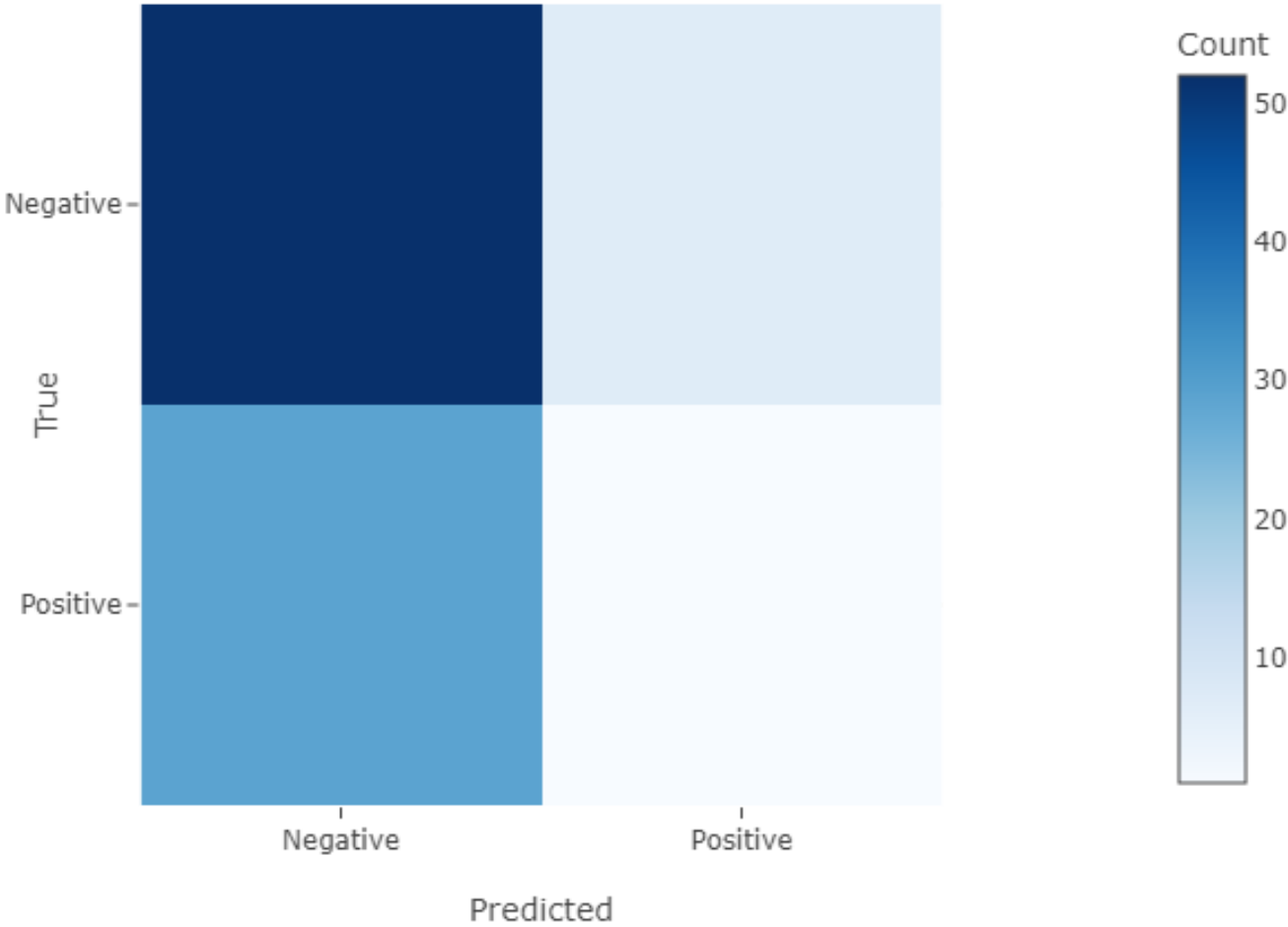
BOLLI_500_P_UPPER_percent_away	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_C_percent_away	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R1_percent_away	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R2_percent_away	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R3_percent_away	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R4_percent_away	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R5_percent_away	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R6_percent_away	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S1_percent_away	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S2_percent_away	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S3_percent_away	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S4_percent_away	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S5_percent_away	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S6_percent_away	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
LIN_REG_percent_away	282.0	-0.029587	1.021581e+00	-1.886747	-0.939655	-0.672693	0.980936	0.980936
LIN_REG_INTERCEPT_percent_away	282.0	0.016940	1.094825e+00	-4.108710	-0.444161	-0.024974	0.444161	0.444161
OBV_percent_away	282.0	-0.012842	1.010093e+00	-1.365017	-0.719717	-0.291883	0.320587	0.320587
VROC_percent_away	282.0	-0.058659	8.099502e-01	-12.820067	0.003057	0.003057	0.003057	0.003057
VWAP_percent_away	282.0	0.002809	1.004723e+00	-3.266018	-0.384211	0.124443	0.563737	0.563737
VWAP_CLOUD_HIGH_percent_away	282.0	-0.002645	1.006844e+00	-4.131399	-0.149329	0.503452	0.612829	0.612829
VWAP_CLOUD_LOW_percent_away	282.0	0.010580	9.917385e-01	-0.824993	-0.570834	-0.502365	0.232535	0.232535
VWAP_L1_percent_away	282.0	-0.019182	9.989105e-01	-2.417469	-0.598964	-0.082446	0.456307	0.456307
VWAP_L2_percent_away	282.0	-0.038908	9.871425e-01	-1.854221	-0.791780	-0.260237	0.393383	0.393383
VWAP_U1_percent_away	282.0	0.019269	1.003441e+00	-3.815452	-0.417688	0.264211	0.651381	0.651381
VWAP_U2_percent_away	282.0	0.029582	9.999634e-01	-4.005351	-0.417683	0.368282	0.748391	0.748391
ZIGZAG_HIGH_percent_away	282.0	-0.041770	1.054654e+00	-6.776238	-0.215753	0.378710	0.454037	0.454037
ZIGZAG_LOW_percent_away	282.0	0.036200	1.171552e+00	-0.944474	-0.343171	-0.289965	0.148535	0.148535
VOLUME_UP_percent_away	282.0	-0.047565	6.951230e-18	-0.047565	-0.047565	-0.047565	-0.047565	-0.047565
CP__R6_percent_away	282.0	0.000382	9.916555e-01	-2.375819	-0.671233	-0.143980	0.752038	0.752038
CP__S6_percent_away	282.0	0.044053	1.004400e+00	-1.449825	-0.840122	-0.110346	0.717425	0.717425
CHAIKIN_percent_away	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
BOLLI_500_UPPER_percent_away	282.0	0.006264	1.015100e+00	-3.293801	-0.562450	0.198008	0.764192	0.764192
CP__S3_percent_away	282.0	0.045772	9.933939e-01	-2.007922	-0.554352	0.123400	0.662888	0.662888
BOLLI_500_LOWER_percent_away	282.0	0.015484	1.028041e+00	-1.997646	-0.722584	0.018416	0.611584	0.611584
14_MA_ENVELOPES_UPPER_percent_away	282.0	-0.021877	1.048537e+00	-2.598799	-0.885355	-0.514555	0.145445	0.145445
14_MA_ENVELOPES_LOWER_percent_away	282.0	-0.021882	1.048562e+00	-2.598304	-0.885241	-0.514799	0.145201	0.145201
14_MA_ENVELOPES_MID_percent_away	282.0	-0.021869	1.048554e+00	-2.598746	-0.884878	-0.514494	0.145506	0.145506
CP__S2_percent_away	282.0	0.044880	9.919199e-01	-2.029220	-0.506162	0.155924	0.646236	0.646236
VOLUME_DOWN_percent_away	282.0	-0.047565	6.951230e-18	-0.047565	-0.047565	-0.047565	-0.047565	-0.047565
CP__S1_percent_away	282.0	0.043698	9.904335e-01	-2.041064	-0.494352	0.167252	0.637817	0.637817
CP__R5_percent_away	282.0	0.013927	9.865772e-01	-2.598704	-0.740874	0.112533	0.729940	0.729940
CP__R4_percent_away	282.0	0.027637	9.843116e-01	-2.588438	-0.574794	0.137524	0.723421	0.723421
CP__R1_percent_away	282.0	0.040403	9.876470e-01	-2.201605	-0.409971	0.167304	0.610947	0.610947
CP__C_percent_away	282.0	0.042208	9.889878e-01	-2.080148	-0.455797	0.196951	0.640214	0.640214
CP__S5_percent_away	282.0	0.046440	1.001672e+00	-1.696463	-0.729306	-0.101163	0.714665	0.714665
BOLLI_500_MID_percent_away	282.0	0.010989	1.022411e+00	-2.723396	-0.645269	0.118887	0.737813	0.737813
CP__R3_percent_away	282.0	0.035910	9.855260e-01	-2.406092	-0.409735	0.177949	0.644104	0.644104
VOLUME_percent_away	282.0	-0.058243	6.951230e-18	-0.058243	-0.058243	-0.058243	-0.058243	-0.058243
CP__S4_percent_away	282.0	0.047041	9.973479e-01	-1.905339	-0.623597	0.016332	0.721191	0.721191
CP__R2_percent_away	282.0	0.038293	9.864752e-01	-2.311164	-0.401945	0.170063	0.639357	0.639357
1000_SMA_binary	282.0	0.531915	4.998675e-01	0.000000	0.000000	1.000000	1.000000	1.000000
144_SMA_binary	282.0	0.531915	4.998675e-01	0.000000	0.000000	1.000000	1.000000	1.000000
14_P_MA_ENVELOPES_LOWER_binary	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
14_P_MA_ENVELOPES_MID_binary	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
14_P_MA_ENVELOPES_UPPER_binary	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
236_EMA_binary	282.0	0.521277	5.004352e-01	0.000000	0.000000	1.000000	1.000000	1.000000
382_EMA_binary	282.0	0.546099	4.987554e-01	0.000000	0.000000	1.000000	1.000000	1.000000
618_EMA_binary	282.0	0.546099	4.987554e-01	0.000000	0.000000	1.000000	1.000000	1.000000
62_ZLEMA_binary	282.0	0.475177	5.002712e-01	0.000000	0.000000	0.000000	1.000000	1.000000
8_ZLEMA_binary	282.0	0.468085	4.998675e-01	0.000000	0.000000	0.000000	1.000000	1.000000
ACCUM_DIST_binary	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
APZ_LOW_binary	282.0	0.992908	8.406521e-02	0.000000	1.000000	1.000000	1.000000	1.000000
APZ_UPPER_binary	282.0	0.017730	1.322048e-01	0.000000	0.000000	0.000000	0.000000	1.000000
BOLLI_500_P_LOWER_binary	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000

Loss Mitigation Analysis

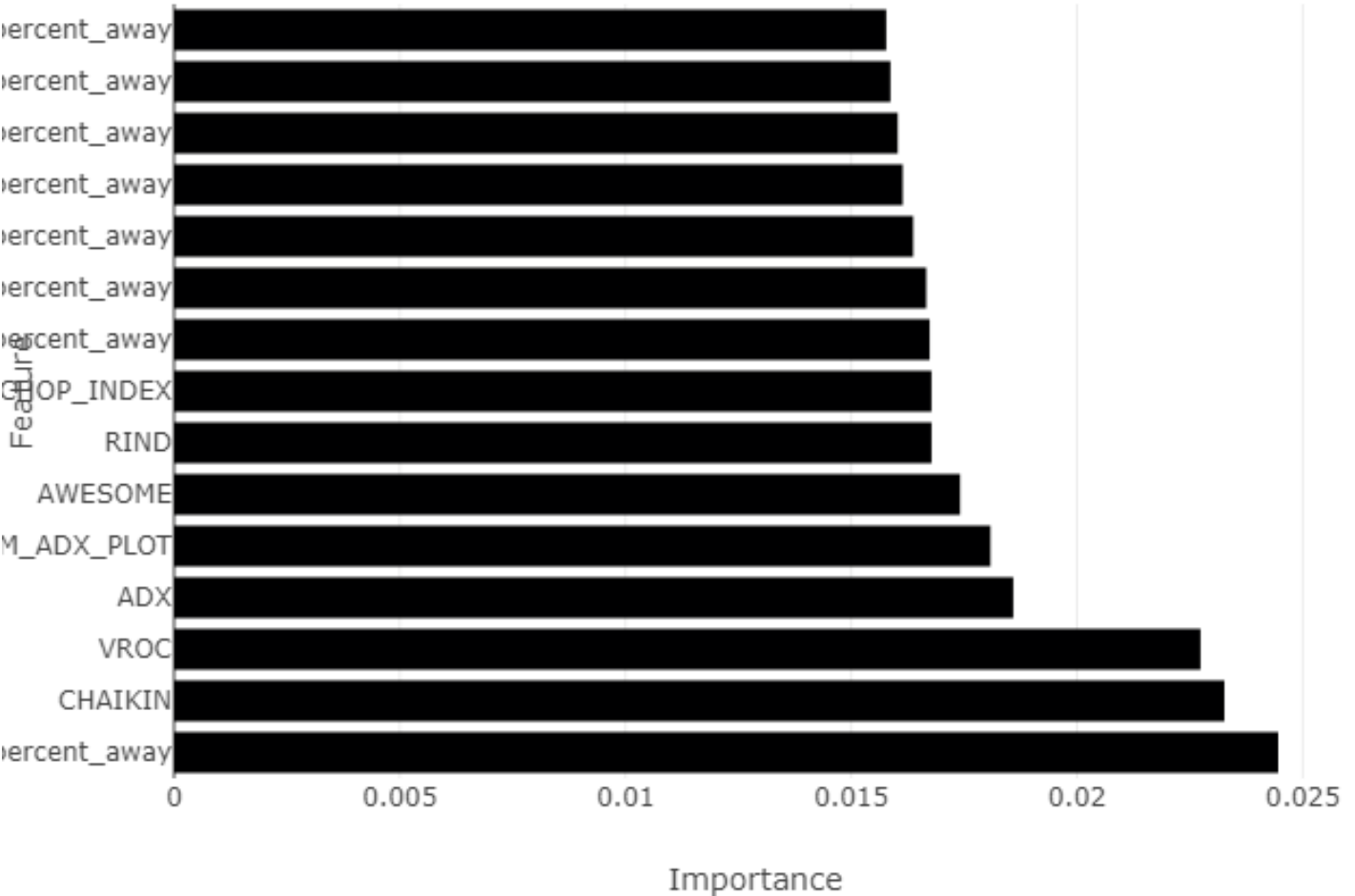
BOLLI_500_P_MID_binary	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
BOLLI_500_P_UPPER_binary	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_C_binary	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R1_binary	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R2_binary	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R3_binary	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R4_binary	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R5_binary	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R6_binary	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S1_binary	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S2_binary	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S3_binary	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S4_binary	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S5_binary	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S6_binary	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
LIN_REG_binary	282.0	0.471631	5.000820e-01	0.000000	0.000000	0.000000	1.000000	1.000000
LIN_REG_INTERCEPT_binary	282.0	0.531915	4.998675e-01	0.000000	0.000000	1.000000	1.000000	1.000000
OBV_binary	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
VROC_binary	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
VWAP_binary	282.0	0.482270	5.005739e-01	0.000000	0.000000	0.000000	1.000000	1.000000
VWAP_CLOUD_HIGH_binary	282.0	0.163121	3.701325e-01	0.000000	0.000000	0.000000	0.000000	0.000000
VWAP_CLOUD_LOW_binary	282.0	0.804965	3.969324e-01	0.000000	1.000000	1.000000	1.000000	1.000000
VWAP_L1_binary	282.0	0.677305	4.683383e-01	0.000000	0.000000	1.000000	1.000000	1.000000
VWAP_L2_binary	282.0	0.872340	3.343036e-01	0.000000	1.000000	1.000000	1.000000	1.000000
VWAP_U1_binary	282.0	0.301418	4.596898e-01	0.000000	0.000000	0.000000	1.000000	1.000000
VWAP_U2_binary	282.0	0.106383	3.088753e-01	0.000000	0.000000	0.000000	0.000000	1.000000
ZIGZAG_HIGH_binary	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
ZIGZAG_LOW_binary	282.0	0.996454	5.954913e-02	0.000000	1.000000	1.000000	1.000000	1.000000
14_MA_ENVELOPES_LOWER_binary	282.0	1.000000	0.000000e+00	1.000000	1.000000	1.000000	1.000000	1.000000
14_MA_ENVELOPES_MID_binary	282.0	0.471631	5.000820e-01	0.000000	0.000000	0.000000	1.000000	1.000000
14_MA_ENVELOPES_UPPER_binary	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
VOLUME_DOWN_binary	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
CP__S1_binary	282.0	0.592199	4.922996e-01	0.000000	0.000000	1.000000	1.000000	1.000000
BOLLI_500_MID_binary	282.0	0.535461	4.996276e-01	0.000000	0.000000	1.000000	1.000000	1.000000
BOLLI_500_UPPER_binary	282.0	0.386525	4.878189e-01	0.000000	0.000000	0.000000	1.000000	1.000000
CP__C_binary	282.0	0.517730	5.005739e-01	0.000000	0.000000	1.000000	1.000000	1.000000
VOLUME_binary	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
CP__R4_binary	282.0	0.074468	2.629978e-01	0.000000	0.000000	0.000000	0.000000	1.000000
CP__R5_binary	282.0	0.024823	1.558611e-01	0.000000	0.000000	0.000000	0.000000	1.000000
BOLLI_500_LOWER_binary	282.0	0.705674	4.565495e-01	0.000000	0.000000	1.000000	1.000000	1.000000
CP__S5_binary	282.0	0.929078	2.571508e-01	0.000000	1.000000	1.000000	1.000000	1.000000
CP__S2_binary	282.0	0.645390	4.792454e-01	0.000000	0.000000	1.000000	1.000000	1.000000
CP__R3_binary	282.0	0.234043	4.241516e-01	0.000000	0.000000	0.000000	0.000000	1.000000
CP__S6_binary	282.0	1.000000	0.000000e+00	1.000000	1.000000	1.000000	1.000000	1.000000
CHAIKIN_binary	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
VOLUME_UP_binary	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
CP__R2_binary	282.0	0.294326	4.565495e-01	0.000000	0.000000	0.000000	1.000000	1.000000
CP__R6_binary	282.0	0.003546	5.954913e-02	0.000000	0.000000	0.000000	0.000000	1.000000
CP__S4_binary	282.0	0.783688	4.124614e-01	0.000000	1.000000	1.000000	1.000000	1.000000
CP__S3_binary	282.0	0.684397	4.655817e-01	0.000000	0.000000	1.000000	1.000000	1.000000
CP__R1_binary	282.0	0.411348	4.929528e-01	0.000000	0.000000	0.000000	1.000000	1.000000



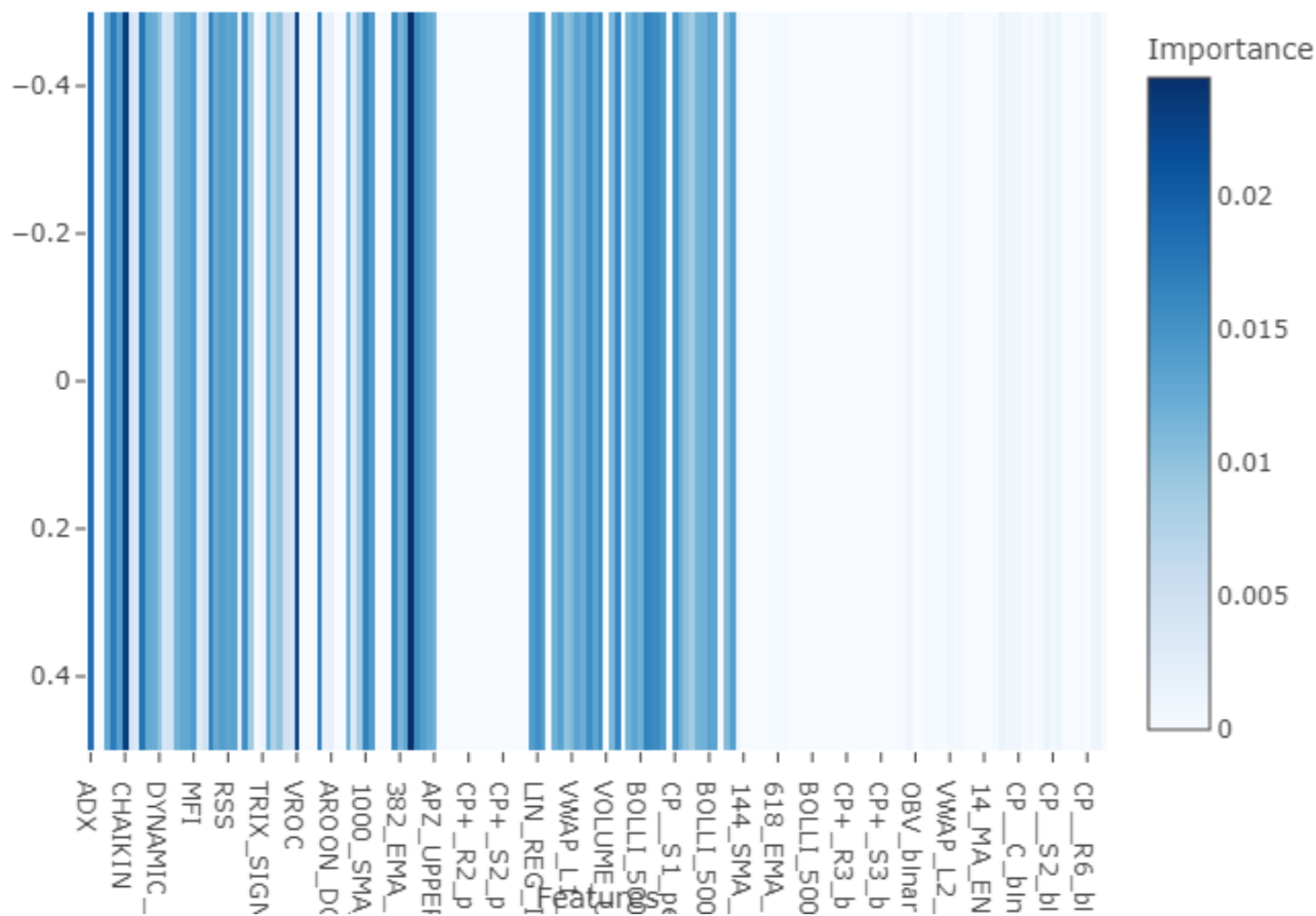
Confusion Matrix



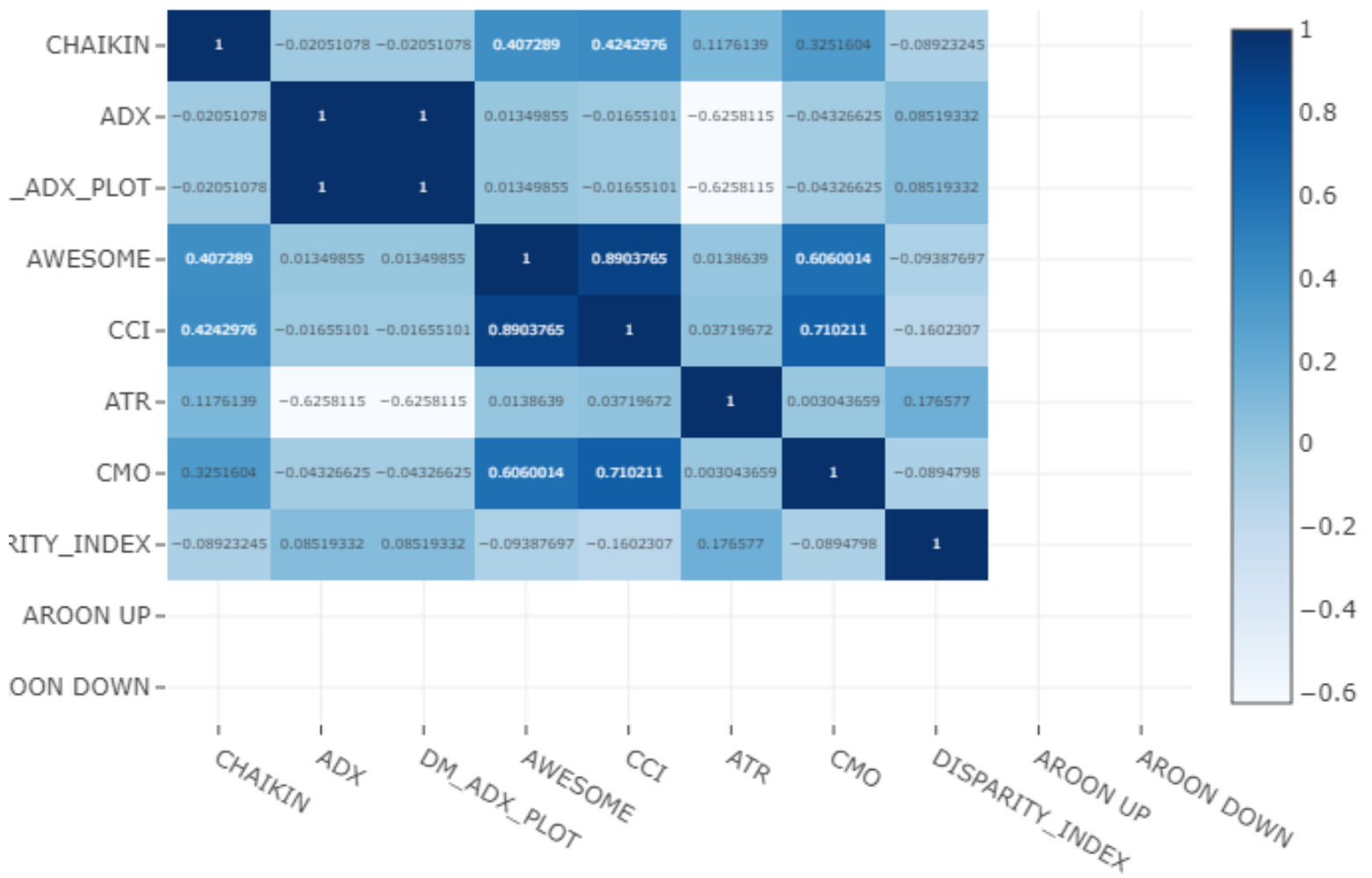
Feature Importance



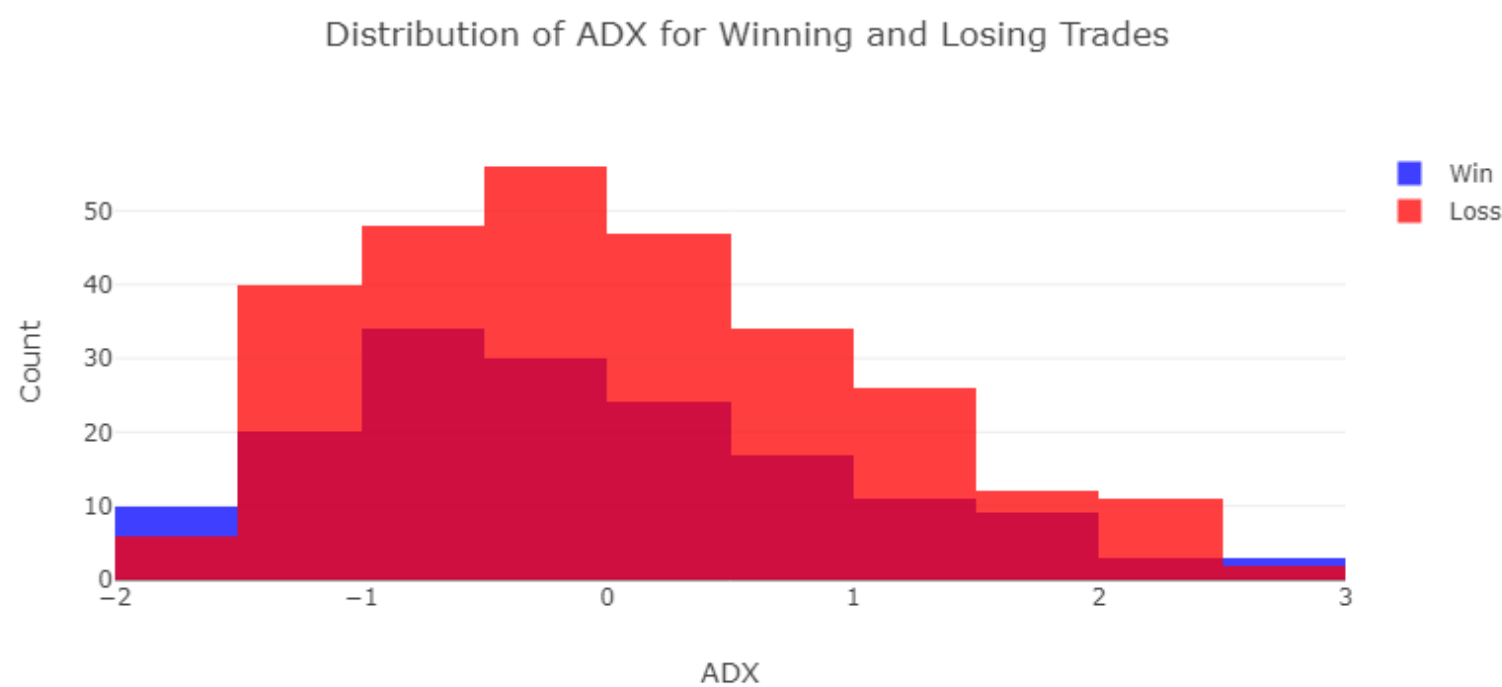
### Feature Importance Heatmap



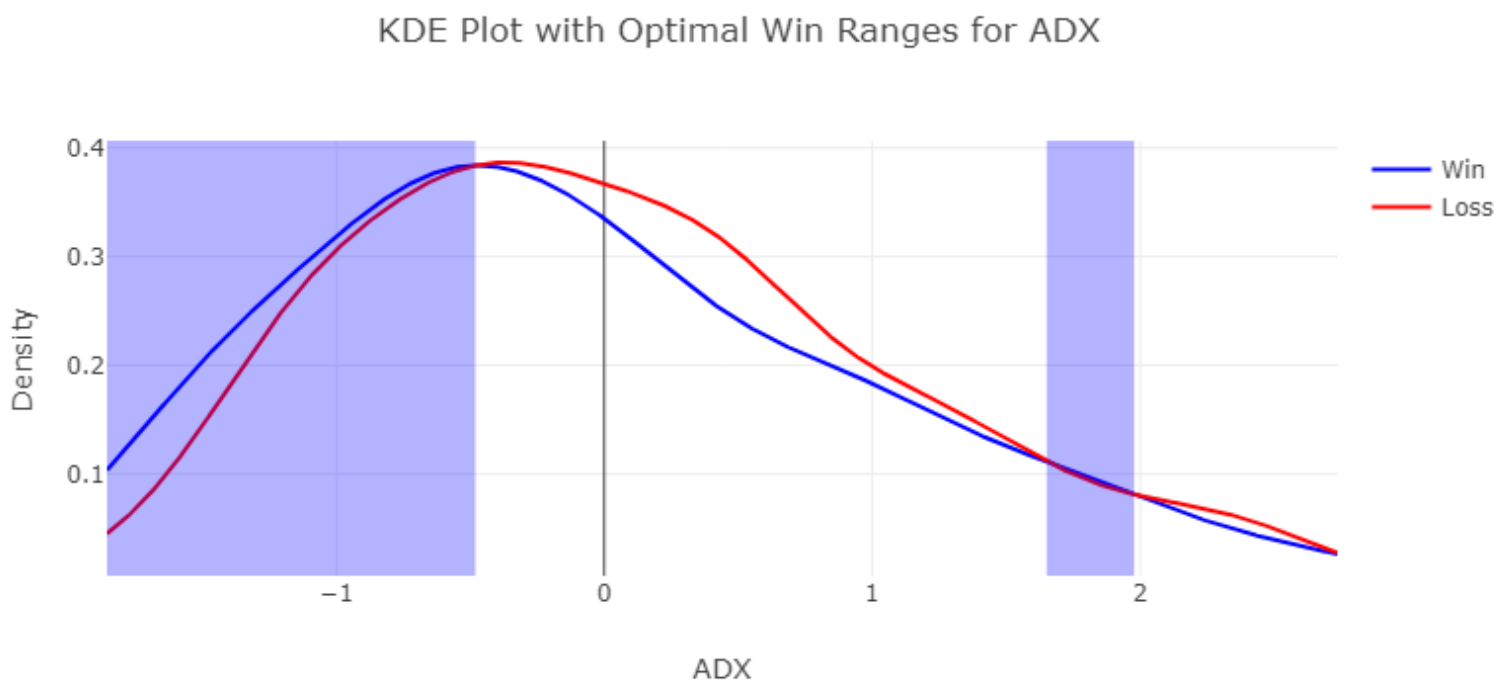
### Correlation Matrix of Top Indicators



Distribution of ADX for Winning and Losing Trades



KDE Plot with Optimal Win Ranges for ADX



Mean Indicator Values for Losses

