

Classification Report				
	precision	recall	f1-score	support
0	0.66	0.92	0.77	59
1	0.29	0.07	0.11	30
accuracy			0.63	89
macro avg	0.47	0.49	0.44	89
weighted avg	0.53	0.63	0.54	89

Accuracy
Accuracy: 0.6292134831460674

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	ADX	LE	-1.856146	-0.550502
2	CHAIKIN	LE	-0.504448	2.233416
3	DM_ADX_PLOT	LE	-1.856146	-0.550502
4	VOLUME	LE	-1.293947	-0.982996
5	VOLUME	LE	0.236418	0.626631
6	VOLUME	LE	1.437541	4.797026
7	RIND	LE	-1.480718	-0.983992
8	RIND	LE	-0.326708	0.307998
9	RSI_DEFAULT	LE	-0.448612	-0.071381
10	RSI_DEFAULT	LE	0.453061	1.351668
11	VROC	LE	0.133962	1.032273
12	VROC	LE	1.629096	3.727207
13	VROC	LE	4.422475	5.326939
14	1000_SMA_percent_away	LE	-1.533229	0.221328
15	14_MA_ENVELOPES_UPPER_percent_away	LE	0.156019	0.332407
16	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	ADX	SE	-1.813218	-1.390044
2	ADX	SE	-0.458162	-0.156538
3	ADX	SE	0.761839	2.031359
4	ADX	SE	2.616599	2.684127
5	CHAIKIN	SE	-2.835997	-1.273989
6	CHAIKIN	SE	0.443402	3.133981
7	CHAIKIN	SE	3.461103	5.333877
8	DM_ADX_PLOT	SE	-1.813218	-1.390044
9	DM_ADX_PLOT	SE	-0.458162	-0.156538
10	DM_ADX_PLOT	SE	0.761839	2.031359
11	DM_ADX_PLOT	SE	2.616599	2.684127
12	VOLUME	SE	-0.359423	1.402662
13	VOLUME	SE	2.742522	3.969788
14	RIND	SE	0.563846	2.777942
15	RSI_DEFAULT	SE	-0.519131	1.443094
16	VROC	SE	-0.069845	2.508939
17	VROC	SE	4.114725	5.495974
18	1000_SMA_percent_away	SE	-1.607683	-1.287814
19	1000_SMA_percent_away	SE	-0.949492	0.250013
20	1000_SMA_percent_away	SE	1.529486	3.608630
21	14_MA_ENVELOPES_UPPER_percent_away	SE	-2.559908	-2.393736
22	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	ADX		-1.856146	-0.481542	
3	ADX		1.651623	1.978034	
4	CHAIKIN		0.247128	2.986776	
5	CHAIKIN		3.567418	5.276630	
6	DM_ADX_PLOT		-1.856146	-0.481542	
7	DM_ADX_PLOT		1.651623	1.978034	
8	VOLUME		-0.031853	0.919290	
9	VOLUME		1.657035	1.839947	
10	VOLUME		2.364295	4.797026	
11	RIND		-1.480718	-0.709129	
12	RIND		0.697636	2.777942	
13	RSI_DEFAULT		-0.488607	1.466825	
14	VROC		-0.042629	3.488741	
15	VROC		4.332459	5.679687	
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

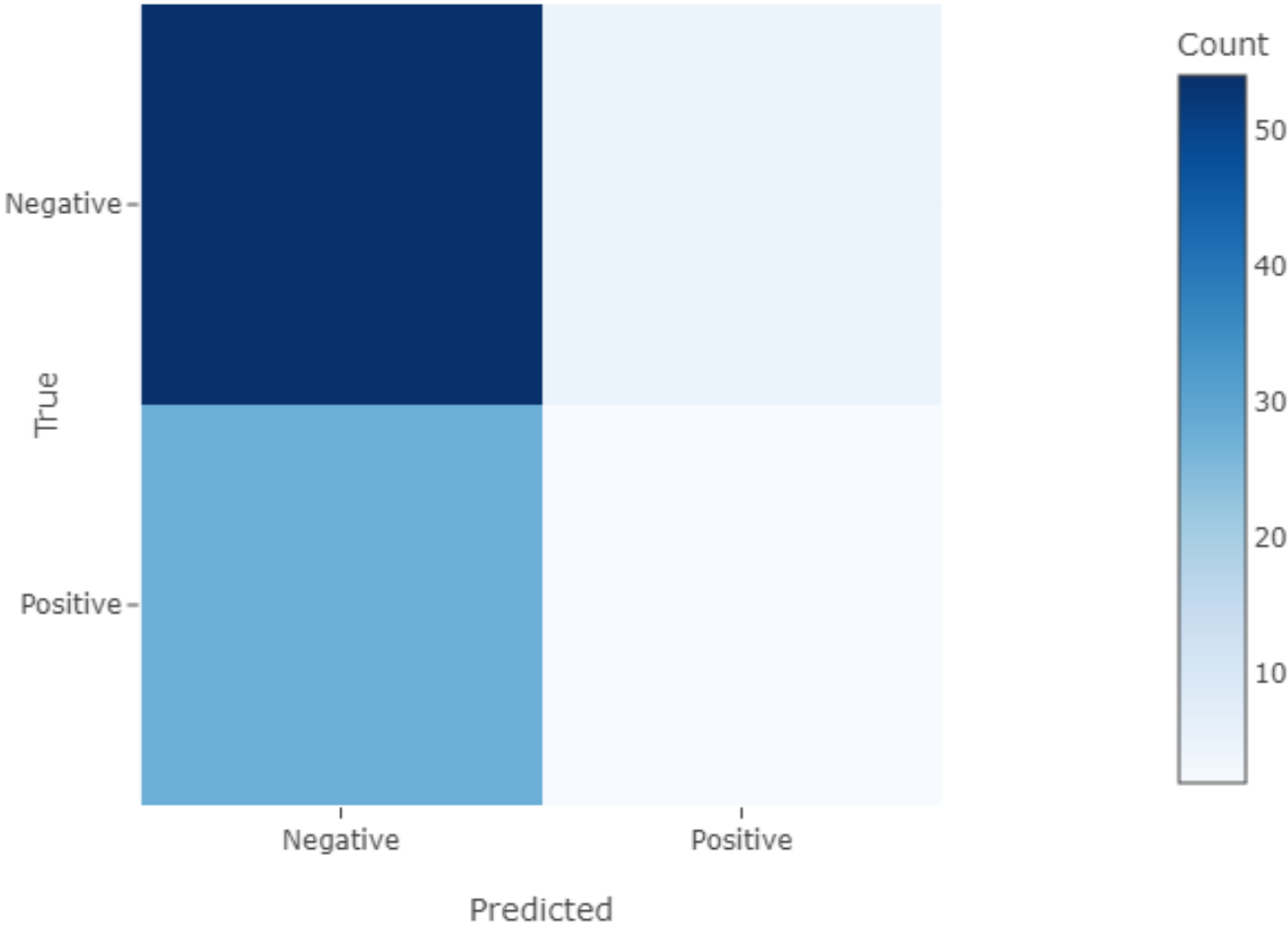
	count	mean	std	min	25%	50%	75%	max	
ADX	282.0	0.049513	9.803708e-01	-1.813218	-0.688881	-0.058818	0.623565	2.736595	
AROON_DOWN	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000	0.0
AROON_UP	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000
ATR	282.0	-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	
strategy_amount	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.00	
account_amount	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		

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BOLLI_500_P_LOWER_percent_away	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
BOLLI_500_P_MID_percent_away	282.0	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000
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	0.454033
LIN_REG_INTERCEPT_percent_away	282.0	0.016940	1.094825e+00	-4.108710	-0.444161	-0.024974	0.454033	0.454033
OBV_percent_away	282.0	-0.012842	1.010093e+00	-1.365017	-0.719717	-0.291883	0.320587	5.000000
VROC_percent_away	282.0	-0.058659	8.099502e-01	-12.820067	0.003057	0.003057	0.003057	0.000000
VWAP_percent_away	282.0	0.002809	1.004723e+00	-3.266018	-0.384211	0.124443	0.563737	2.000000
VWAP_CLOUD_HIGH_percent_away	282.0	-0.002645	1.006844e+00	-4.131399	-0.149329	0.503452	0.600000	0.600000
VWAP_CLOUD_LOW_percent_away	282.0	0.010580	9.917385e-01	-0.824993	-0.570834	-0.502365	0.200000	0.200000
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	0.454033	0.454033
ZIGZAG_LOW_percent_away	282.0	0.036200	1.171552e+00	-0.944474	-0.343171	-0.289965	0.148553	0.148553
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	0.764000	0.764000
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	0.610000	0.610000
14_MA_ENVELOPES_UPPER_percent_away	282.0	-0.021877	1.048537e+00	-2.598799	-0.885355	-0.514553	0.514553	0.514553
14_MA_ENVELOPES_LOWER_percent_away	282.0	-0.021882	1.048562e+00	-2.598304	-0.885241	-0.514799	0.514799	0.514799
14_MA_ENVELOPES_MID_percent_away	282.0	-0.021869	1.048554e+00	-2.598746	-0.884878	-0.514494	0.514494	0.514494
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	0.737820	0.737820
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

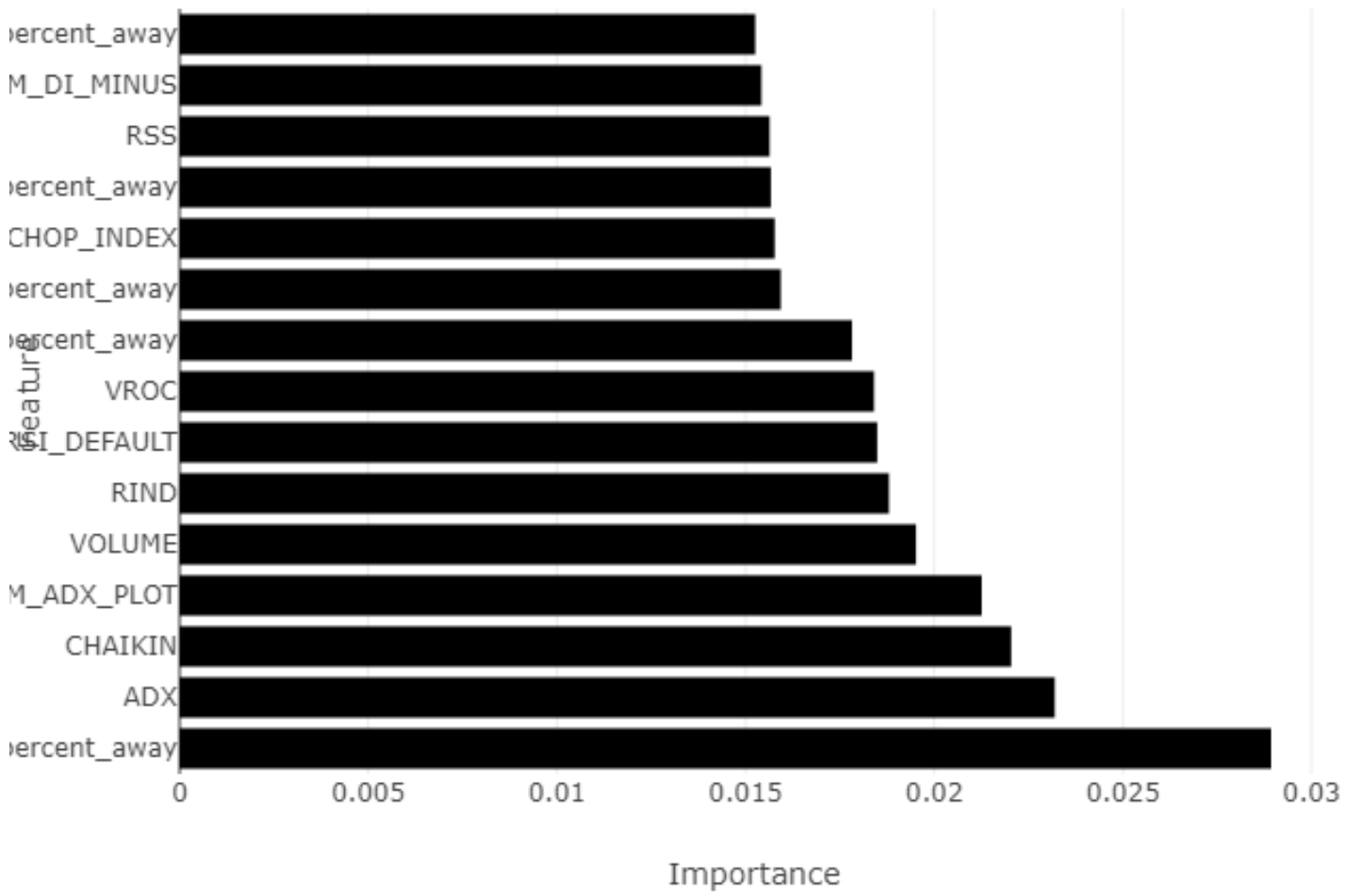
Loss Mitigation Analysis

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
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

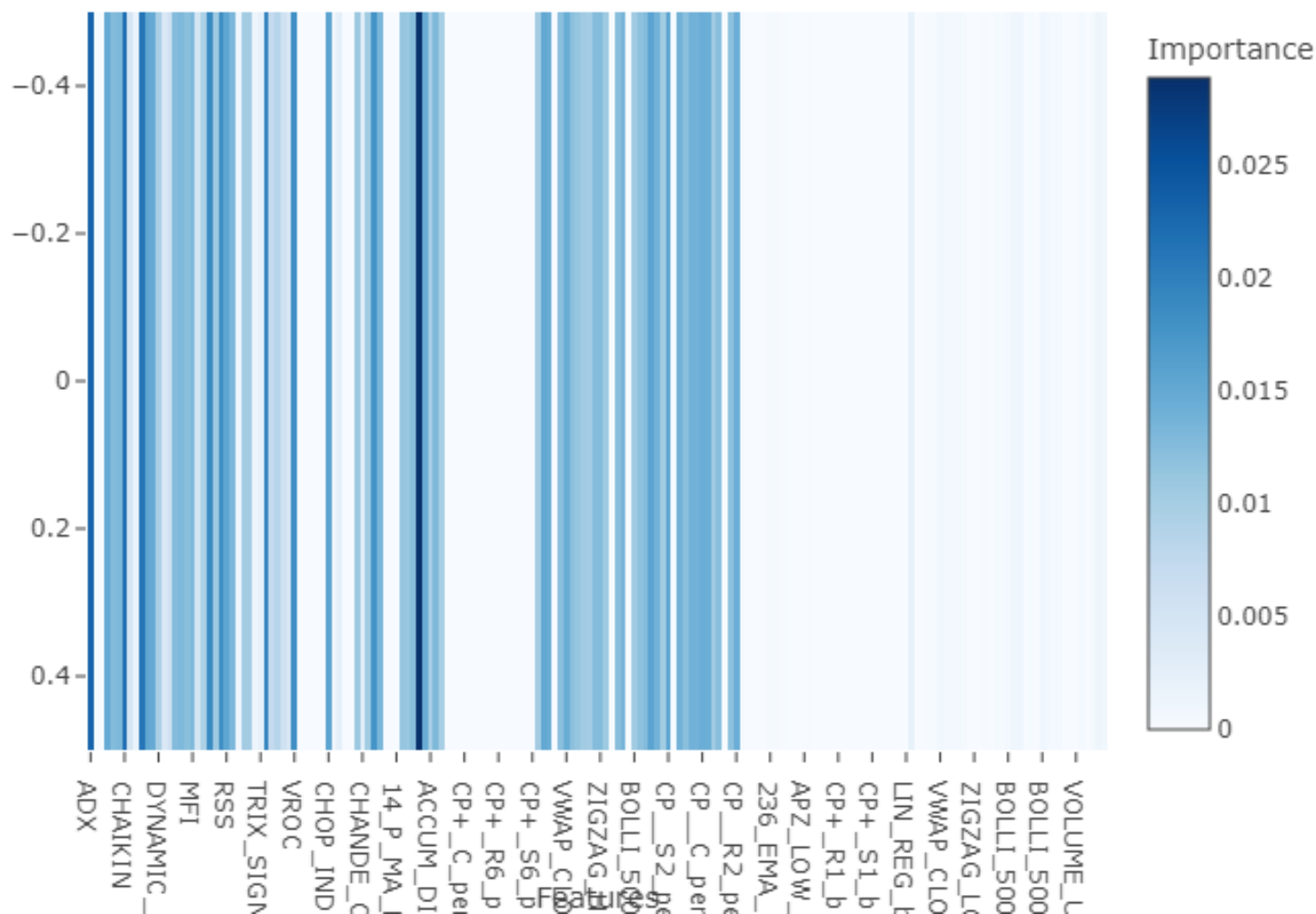
Confusion Matrix



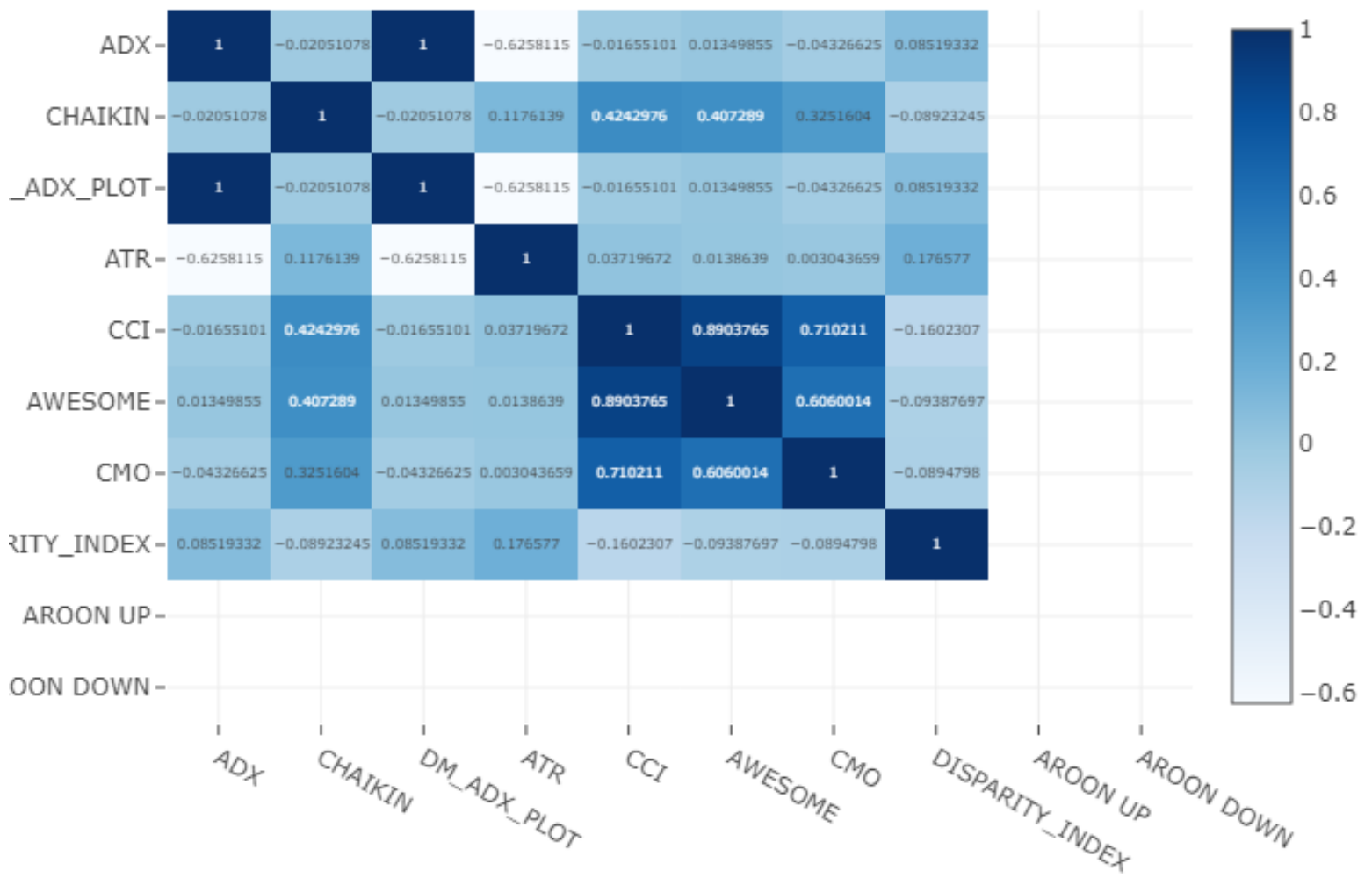
Feature Importance



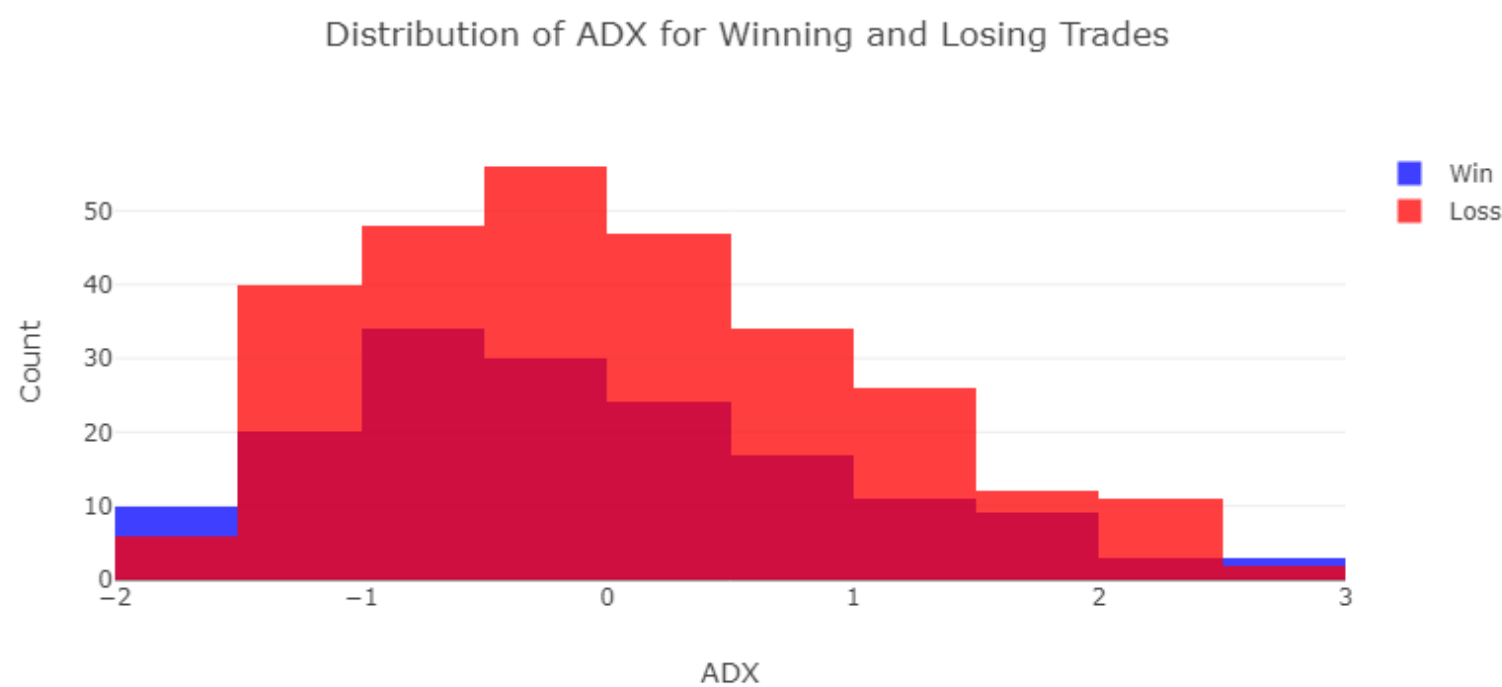
Feature Importance Heatmap



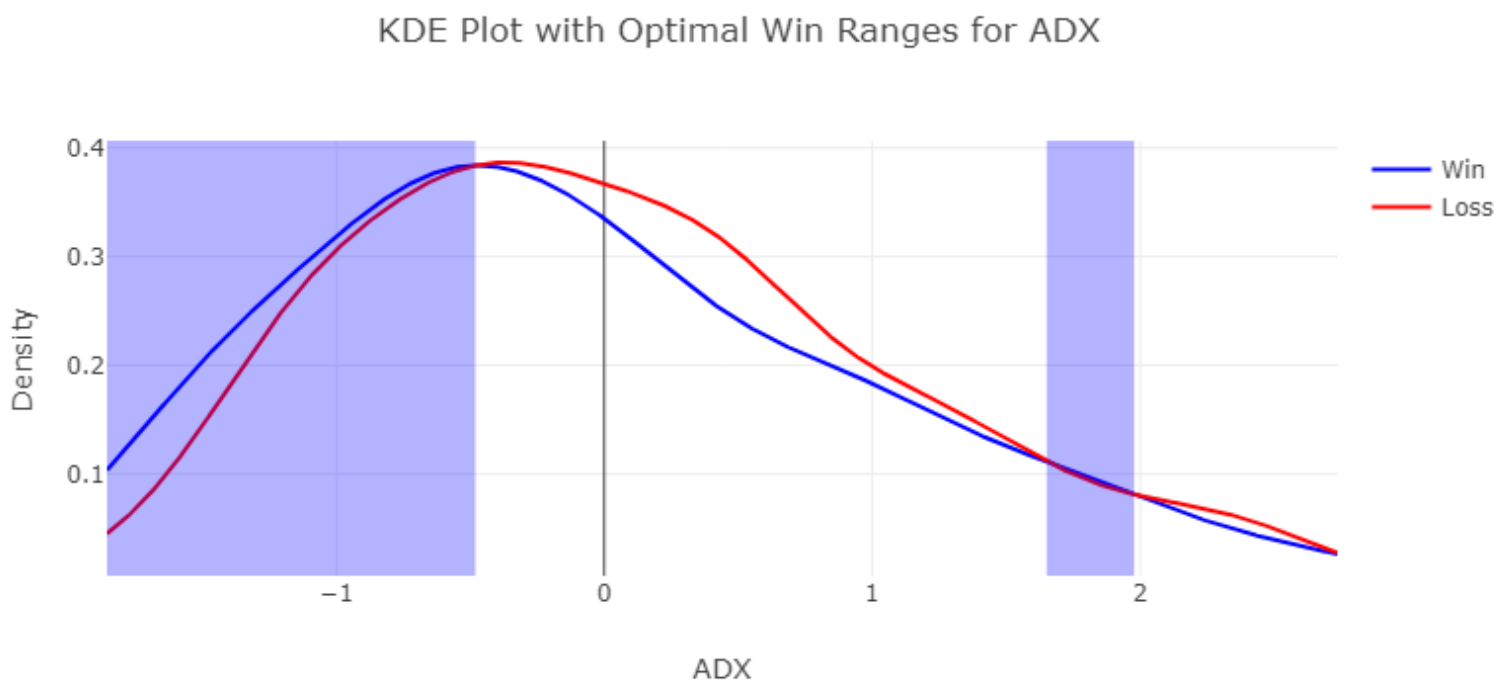
Correlation Matrix of Top Indicators



Distribution of ADX for Winning and Losing Trades



KDE Plot with Optimal Win Ranges for ADX



Mean Indicator Values for Losses

