

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	-0.009227	0.309345	
1	62_ZLEMA_percent_away	LE	1.082119	3.141798	
2	ADX	LE	-0.545905	2.736595	
3	CHAIKIN	LE	-2.607515	-0.509294	
4	DM_ADX_PLOT	LE	-0.545905	2.736595	
5	VOLUME	LE	-0.976899	0.230321	
6	VOLUME	LE	0.632728	1.431444	
7	RIND	LE	-0.981483	-0.329216	
8	RIND	LE	0.310507	1.025491	
9	RSI_DEFAULT	LE	-1.712182	-0.451679	
10	RSI_DEFAULT	LE	-0.068315	0.449994	
11	VROC	LE	-0.819725	0.127809	
12	VROC	LE	1.038426	1.622943	
13	VROC	LE	3.733360	4.416322	
14	1000_SMA_percent_away	LE	-2.513960	-1.537367	
15	1000_SMA_percent_away	LE	0.225466	1.620008	
16	14_MA_ENVELOPES_UPPER_percent_away	LE	-0.377066	0.152099	
17	14_MA_ENVELOPES_UPPER_percent_away	LE	0.336326	0.724380	
18	14_MA_ENVELOPES_UPPER_percent_away	LE	1.034039	3.538751	

Optimal Win Ranges Summary for Short Trades

	feature	trade_type	optimal_win_range_start	optimal_win_range_end	
0	62_ZLEMA_percent_away	SE	-8.786650	-1.266436	
1	62_ZLEMA_percent_away	SE	-0.194903	0.944818	
2	ADX	SE	-1.385542	-0.462664	
3	ADX	SE	-0.152036	0.757337	
4	ADX	SE	2.035861	2.612098	
5	CHAIKIN	SE	-1.265811	0.435224	
6	CHAIKIN	SE	3.142159	3.452925	
7	DM_ADX_PLOT	SE	-1.385542	-0.462664	
8	DM_ADX_PLOT	SE	-0.152036	0.757337	
9	DM_ADX_PLOT	SE	2.035861	2.612098	
10	VOLUME	SE	-1.293947	-0.365052	
11	VOLUME	SE	1.408291	2.736892	
12	VOLUME	SE	3.975418	4.330086	
13	RIND	SE	-0.102113	0.560963	
14	RSI_DEFAULT	SE	-1.619338	-0.530473	
15	RSI_DEFAULT	SE	1.454436	9.711659	
16	VROC	SE	-0.838718	-0.076650	
17	VROC	SE	2.515743	4.107921	
18	VROC	SE	5.502778	5.958658	
19	1000_SMA_percent_away	SE	-1.281663	-0.955644	
20	1000_SMA_percent_away	SE	0.256165	1.523335	
21	1000_SMA_percent_away	SE	3.614781	4.537478	
22	14_MA_ENVELOPES_UPPER_percent_away	SE	-2.598799	-2.563443	
23	14_MA_ENVELOPES_UPPER_percent_away	SE	-2.390201	-1.057293	
24	14_MA_ENVELOPES_UPPER_percent_away	SE	-0.671917	0.933229	

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		-8.786650	-0.965696	
1	62_ZLEMA_percent_away		-0.547782	0.120880	
2	62_ZLEMA_percent_away		1.171634	3.141798	
3	ADX		-0.476944	1.647026	
4	ADX		1.982632	2.736595	
5	CHAIKIN		-2.835997	0.238950	
6	CHAIKIN		2.994954	3.559240	
7	CHAIKIN		5.284809	5.333877	
8	DM_ADX_PLOT		-0.476944	1.647026	
9	DM_ADX_PLOT		1.982632	2.736595	
10	VOLUME		-1.293947	-0.037950	
11	VOLUME		0.925387	1.650938	
12	VOLUME		1.846044	2.358198	
13	RIND		-0.704866	0.693373	
14	RSI_DEFAULT		-1.712182	-0.500043	
15	RSI_DEFAULT		1.478260	9.711659	
16	VROC		-0.838718	-0.049433	
17	VROC		3.495545	4.325655	
18	VROC		5.686491	5.958658	
19	1000_SMA_percent_away		-2.513960	-1.638706	
20	1000_SMA_percent_away		0.217678	1.954068	
21	1000_SMA_percent_away		3.584581	4.537478	
22	14_MA_ENVELOPES_UPPER_percent_away			-2.598799	-1.112025
23	14_MA_ENVELOPES_UPPER_percent_away			-0.485368	0.067564
24	14_MA_ENVELOPES_UPPER_percent_away			1.511332	3.538751

Loss Mitigation Analysis

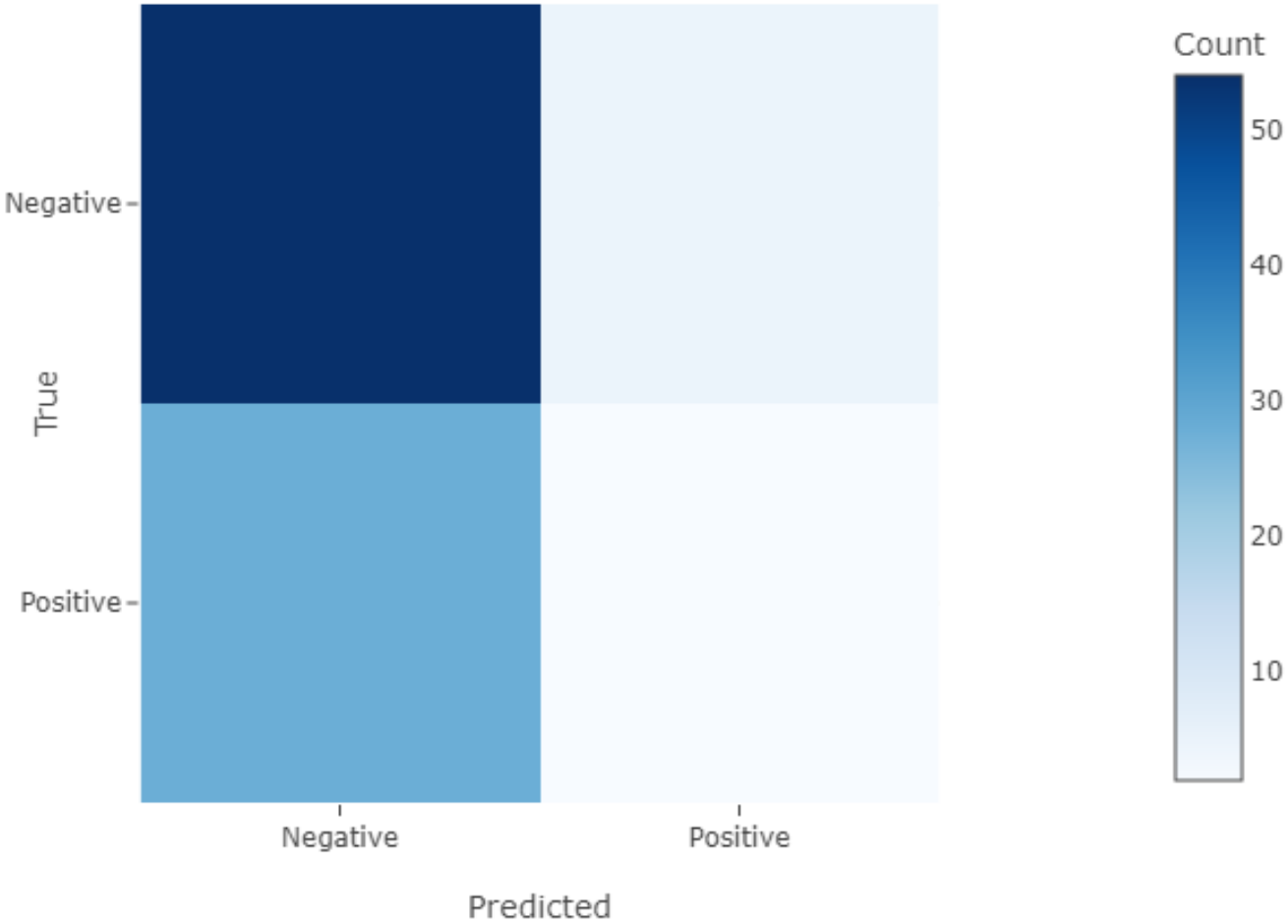
	count	mean	std	min	25%	50%	75%	max	
ADX	161.0	-0.086724	1.033868	-1.856146	-0.816921	-0.279124	0.611044	2.684127	
AROON_DOWN	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
AROON_UP	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
ATR	161.0	0.089757	0.990835	-1.569222	-0.625525	-0.094696	0.731039	3.473657	
AWESOME	161.0	-0.039341	0.981945	-1.229055	-1.014987	-0.558666	0.982758	1.162602	
CCI	161.0	-0.042472	1.017479	-1.710272	-1.018385	-0.132852	0.930918	1.539593	
CHAIKIN	161.0	0.152176	1.065306	-2.835997	-0.381632	-0.038888	0.535399	4.891595	
CMO	161.0	-0.033158	0.975329	-2.427354	-0.717361	-0.041638	0.634085	2.821059	
DISPARITY_INDEX	161.0	0.062717	0.784129	-2.137917	-0.022680	-0.022680	-0.022680	2.0925	
DM_ADX_PLOT	161.0	-0.086724	1.033868	-1.856146	-0.816921	-0.279124	0.611044	2.684127	
DM_DI_MINUS	161.0	0.016292	0.988215	-2.355034	-0.847005	0.258633	0.852820	1.567347	
DM_DI_PLUS	161.0	-0.036719	0.912349	-2.164098	-0.778099	0.060892	0.740956	1.402539	
DYNAMIC_MOMENTUM	161.0	0.024852	0.982237	-1.147007	-1.128881	0.117277	1.181169	1.2	
FISHER_TRANSFORM	161.0	-0.034812	0.992269	-1.176961	-1.165929	-0.299934	1.109376	1.1	
LIN_REG_SLOPE	161.0	-0.063989	1.012748	-1.830464	-1.000933	-0.159880	0.888555	1.7180	
MACD_AVG	161.0	-0.037604	0.941314	-1.324624	-0.938041	-0.531749	0.891787	1.245018	
MACD_DEFAULT	161.0	-0.042298	0.956778	-1.278772	-0.975890	-0.557781	0.926998	1.2002	
MACD_DIFF	161.0	-0.013007	0.731834	-1.361020	-0.571660	-0.030803	0.539290	1.445592	
MFI	161.0	0.090901	0.977689	-1.900620	-0.671071	0.160100	0.961028	2.040925	
MOMENTUM	161.0	-0.029736	0.976579	-2.518763	-0.537387	-0.042043	0.453301	2.930021	
PFE	161.0	-0.036801	0.978515	-1.279243	-1.097408	-0.272154	1.070633	1.210506	
RIND	161.0	0.024435	1.066203	-1.480718	-0.967343	-0.046757	0.863972	2.777942	
RSI_AVERAGE	161.0	-0.019465	0.964388	-1.611402	-0.846854	-0.350340	0.833380	1.55128	
RSI_DEFAULT	161.0	0.045158	0.806884	-1.696035	-0.501174	-0.016771	0.713870	1.610016	
RSS	161.0	-0.052284	0.996792	-1.288471	-1.123238	-0.145975	1.021024	1.234005	
RVI	161.0	-0.036774	0.986898	-1.346030	-1.008510	-0.618802	0.959318	1.300526	
R_SQUARED	161.0	0.079282	1.223987	-0.235038	-0.235038	-0.235038	-0.235038	6.482495	
STOCH_FAST_D	161.0	-0.060309	0.999631	-1.187456	-1.017111	-0.856491	0.951241	1.1175	
STOCH_FAST_K	161.0	0.047957	1.016528	-1.801193	-0.996574	0.103517	1.034170	2.50568	
TRIX_DEFAULT	161.0	-0.004517	0.958357	-1.377299	-0.037796	-0.037796	1.301707	1.30170	
TRIX_SIGNAL	161.0	0.023098	0.948604	-1.406677	-0.044583	-0.044583	1.317511	1.317511	
VOLUME	161.0	0.087517	1.092542	-1.293947	-0.671360	-0.131785	0.333772	4.561827	
VOLUME_DOWN	161.0	-0.007181	0.992374	-0.694961	-0.694961	-0.694961	0.478686	4.4071	
VOLUME_UP	161.0	0.097487	1.161919	-0.655680	-0.655680	-0.449074	0.563224	5.395945	
VORTEX_MINUS	161.0	0.056227	0.990559	-1.356432	-0.994989	0.270063	1.083310	1.6254	
VORTEX_PLUS	161.0	-0.047229	0.984130	-1.242821	-1.151938	-0.243107	1.029256	1.48367	
VROC	161.0	0.111302	1.098421	-0.830880	-0.545617	-0.256553	0.348074	5.326939	
WILLIAMS_%R	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
strategy_amount	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
account_amount	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
DIV_BULL	161.0	0.060427	1.003068	-0.971073	-0.971073	1.029789	1.029789	1.029789	
DIV_BEAR	161.0	-0.060427	1.003068	-1.029789	-1.029789	-1.029789	0.971073	0.971073	
CHOP_INDEX	161.0	0.065839	0.994425	-1.380297	-0.664986	-0.384246	0.717563	2.534683	
AROON_UP	161.0	-0.032107	0.988496	-1.223579	-1.223579	0.163214	0.933510	0.933510	
AROON_DOWN	161.0	0.062059	1.002952	-1.159877	-1.159877	0.993562	0.993562	0.9935	
ACCUM_DIST	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
OBV	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
WILLIAMS_R	161.0	0.047957	1.016528	-1.801193	-0.996574	0.103517	1.034170	2.505688	
CHANDE_CMO	161.0	-0.033158	0.975329	-2.427354	-0.717361	-0.041638	0.634085	2.82105	
TSI	161.0	-0.042233	0.961280	-1.273517	-1.042728	-0.231375	0.967703	1.188235	
1000_SMA_percent_away	161.0	-0.054289	0.969462	-2.284117	-0.560677	-0.082181	0.619672	2.43	
144_SMA_percent_away	161.0	-0.007900	0.874176	-1.824832	-0.752271	-0.264145	0.761354	1.59	
14_P_MA_ENVELOPES_LOWER_percent_away	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
14_P_MA_ENVELOPES_MID_percent_away	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
14_P_MA_ENVELOPES_UPPER_percent_away	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
236_EMA_percent_away	161.0	-0.014981	0.910938	-2.278749	-0.642888	-0.107425	0.728828	2.01	
382_EMA_percent_away	161.0	-0.022606	0.939924	-2.535754	-0.650709	0.035614	0.624059	2.24	
618_EMA_percent_away	161.0	-0.036559	0.959180	-2.526879	-0.655269	0.014647	0.536922	2.42	
62_ZLEMA_percent_away	161.0	0.007904	0.828307	-1.842191	-0.762863	0.200388	0.742982	1.35	
8_ZLEMA_percent_away	161.0	0.049304	0.955599	-1.970770	-0.887448	0.737721	0.940378	1.31	
ACCUM_DIST_percent_away	161.0	0.022234	0.986007	-0.970893	-0.703996	-0.253135	0.361190	4.	
APZ_LOW_percent_away	161.0	0.054962	0.956047	-2.011243	-0.889745	0.744222	0.958067	1.32	
APZ_UPPER_percent_away	161.0	0.038502	0.949815	-1.998469	-0.900980	0.670735	0.966535	1.3	

Loss Mitigation Analysis								
BOLLI_500_P_LOWER_percent_away	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
BOLLI_500_P_MID_percent_away	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
BOLLI_500_P_UPPER_percent_away	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_C_percent_away	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R1_percent_away	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R2_percent_away	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R3_percent_away	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R4_percent_away	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R5_percent_away	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R6_percent_away	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S1_percent_away	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S2_percent_away	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S3_percent_away	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S4_percent_away	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S5_percent_away	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S6_percent_away	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
LIN_REG_percent_away	161.0	0.051824	0.965211	-1.811486	-0.908261	0.643023	0.979421	1.289500
LIN_REG_INTERCEPT_percent_away	161.0	-0.029671	0.813782	-3.492166	-0.370264	-0.023743	0.272030	0.000000
OBV_percent_away	161.0	0.022494	0.987962	-1.007527	-0.715813	-0.253923	0.369669	4.123440
VROC_percent_away	161.0	0.102744	1.264883	0.003057	0.003057	0.003057	0.003057	16.052000
VWAP_percent_away	161.0	-0.004920	0.997914	-3.343468	-0.425954	0.083211	0.534928	2.731500
VWAP_CLOUD_HIGH_percent_away	161.0	0.004632	0.994155	-4.238419	-0.207008	0.492549	0.612840	0.000000
VWAP_CLOUD_LOW_percent_away	161.0	-0.018531	1.020223	-0.668333	-0.571711	-0.530098	0.182660	0.000000
VWAP_L1_percent_away	161.0	0.033598	1.007244	-2.463562	-0.550016	-0.036018	0.560001	3.480000
VWAP_L2_percent_away	161.0	0.068150	1.024710	-1.805910	-0.691588	-0.158509	0.516157	3.970000
VWAP_U1_percent_away	161.0	-0.033751	0.999296	-3.827084	-0.460838	0.179575	0.614244	1.900000
VWAP_U2_percent_away	161.0	-0.051815	1.004183	-4.045844	-0.473131	0.310372	0.638305	1.240000
ZIGZAG_HIGH_percent_away	161.0	0.073162	0.898233	-4.632593	-0.001429	0.414480	0.458993	1.000000
ZIGZAG_LOW_percent_away	161.0	-0.063405	0.593196	-0.822025	-0.336612	-0.299673	0.039531	2.000000
VOLUME_UP_percent_away	161.0	0.083313	1.660656	-0.047565	-0.047565	-0.047565	-0.047565	21.000000
CP__R6_percent_away	161.0	-0.000669	1.020631	-2.499174	-0.674171	0.014235	0.810805	2.172000
CP__S6_percent_away	161.0	-0.077161	0.993780	-1.455098	-0.881476	-0.319022	0.445941	2.672000
CHAIKIN_percent_away	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
BOLLI_500_UPPER_percent_away	161.0	-0.010971	0.979219	-3.612127	-0.522336	0.158419	0.686827	0.000000
CP__S3_percent_away	161.0	-0.080173	1.012653	-2.019182	-0.910201	-0.061938	0.557939	2.677000
BOLLI_500_LOWER_percent_away	161.0	-0.027122	0.954706	-1.930522	-0.745580	-0.042059	0.491800	0.000000
14_MA_ENVELOPES_UPPER_percent_away	161.0	0.038318	0.914088	-2.454637	-0.863963	0.532139	0.886000	0.000000
14_MA_ENVELOPES_LOWER_percent_away	161.0	0.038327	0.914036	-2.454502	-0.864895	0.531873	0.886000	0.000000
14_MA_ENVELOPES_MID_percent_away	161.0	0.038305	0.914053	-2.454700	-0.863995	0.532908	0.886000	0.000000
CP__S2_percent_away	161.0	-0.078610	1.015381	-2.040837	-0.905768	-0.048792	0.558686	2.614000
VOLUME_DOWN_percent_away	161.0	0.083313	1.660656	-0.047565	-0.047565	-0.047565	-0.047565	21.000000
CP__S1_percent_away	161.0	-0.076540	1.018175	-2.135086	-0.833336	-0.016894	0.557401	2.535000
CP__R5_percent_away	161.0	-0.024394	1.028781	-2.759710	-0.761173	0.167312	0.769370	2.106000
CP__R4_percent_away	161.0	-0.048407	1.031246	-2.775388	-0.755696	0.153103	0.661412	1.827000
CP__R1_percent_away	161.0	-0.070768	1.023575	-2.393238	-0.664270	0.041792	0.539985	2.321000
CP__C_percent_away	161.0	-0.073930	1.020944	-2.269003	-0.752572	-0.009869	0.552733	2.437000
CP__S5_percent_away	161.0	-0.081342	0.998079	-1.704626	-0.812217	-0.251391	0.550570	2.779000
BOLLI_500_MID_percent_away	161.0	-0.019248	0.965564	-2.909324	-0.632198	0.055874	0.572167	2.000000
CP__R3_percent_away	161.0	-0.062898	1.027968	-2.599601	-0.540786	0.157130	0.599208	2.141000
VOLUME_percent_away	161.0	0.102016	1.659005	-0.058243	-0.058243	-0.058243	-0.058243	20.310000
CP__S4_percent_away	161.0	-0.082394	1.005521	-1.915401	-0.806777	-0.171469	0.552755	2.779000
CP__R2_percent_away	161.0	-0.067072	1.025950	-2.504379	-0.569731	0.113497	0.541409	2.227000
1000_SMA_binary	161.0	0.453416	0.499378	0.000000	0.000000	0.000000	1.000000	1.000000
144_SMA_binary	161.0	0.484472	0.501318	0.000000	0.000000	0.000000	1.000000	1.000000
14_P_MA_ENVELOPES_LOWER_binary	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
14_P_MA_ENVELOPES_MID_binary	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
14_P_MA_ENVELOPES_UPPER_binary	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
236_EMA_binary	161.0	0.484472	0.501318	0.000000	0.000000	0.000000	1.000000	1.000000
382_EMA_binary	161.0	0.503106	0.501550	0.000000	0.000000	1.000000	1.000000	1.000000
618_EMA_binary	161.0	0.509317	0.501473	0.000000	0.000000	1.000000	1.000000	1.000000
62_ZLEMA_binary	161.0	0.515528	0.501318	0.000000	0.000000	1.000000	1.000000	1.000000
8_ZLEMA_binary	161.0	0.515528	0.501318	0.000000	0.000000	1.000000	1.000000	1.000000
ACCUM_DIST_binary	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
APZ_LOW_binary	161.0	0.993789	0.078811	0.000000	1.000000	1.000000	1.000000	1.000000

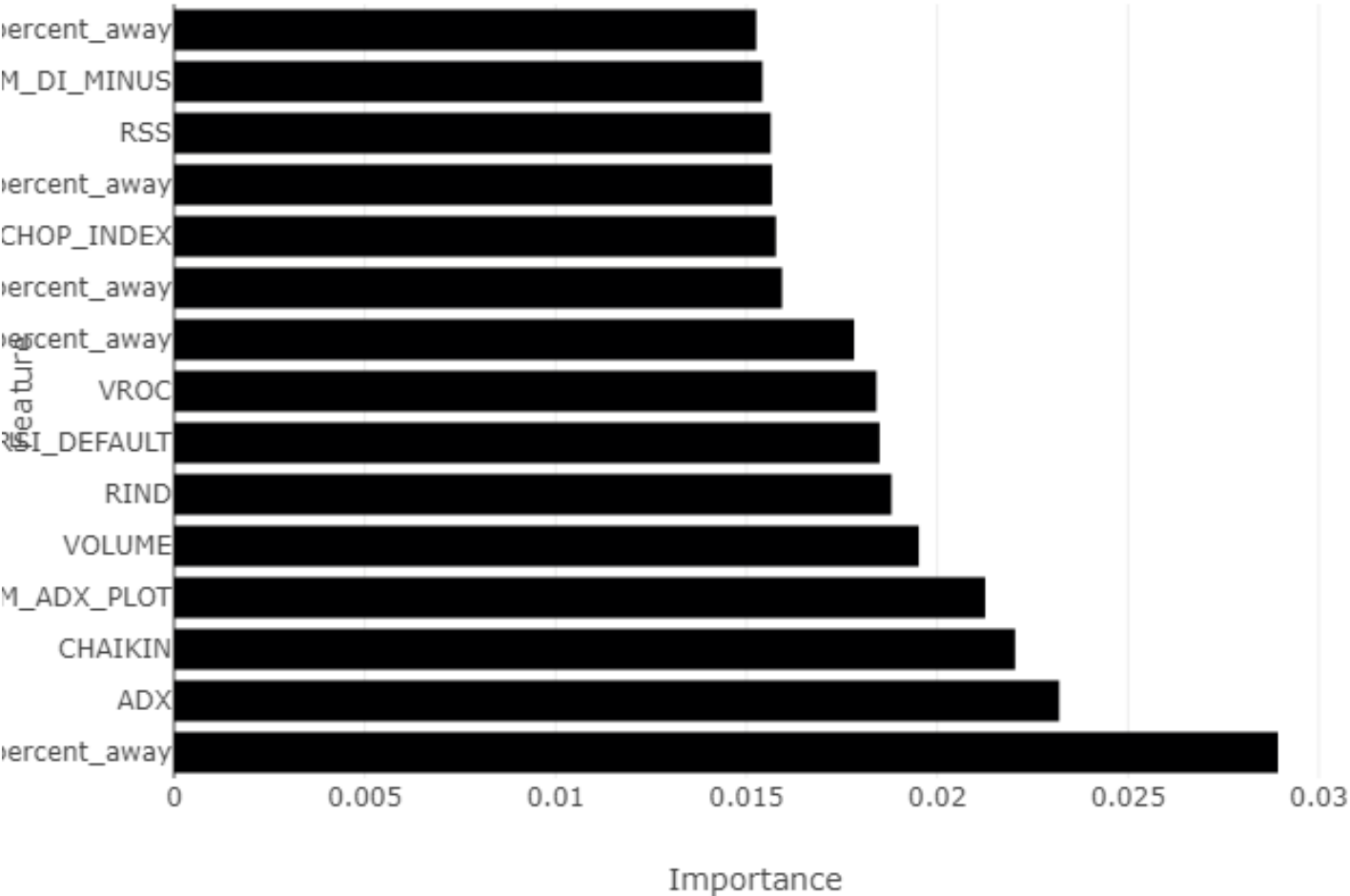
Loss Mitigation Analysis

APZ_UPPER_binary	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
BOLLI_500_P_LOWER_binary	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
BOLLI_500_P_MID_binary	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
BOLLI_500_P_UPPER_binary	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_C_binary	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R1_binary	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R2_binary	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R3_binary	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R4_binary	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R5_binary	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_R6_binary	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S1_binary	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S2_binary	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S3_binary	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S4_binary	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S5_binary	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP+_S6_binary	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
LIN_REG_binary	161.0	0.515528	0.501318	0.000000	0.000000	1.000000	1.000000	1.000000	1.000000
LIN_REG_INTERCEPT_binary	161.0	0.503106	0.501550	0.000000	0.000000	1.000000	1.000000	1.000000	1.000000
OBV_binary	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
VROC_binary	161.0	0.006211	0.078811	0.000000	0.000000	0.000000	0.000000	1.000000	1.000000
VWAP_binary	161.0	0.459627	0.499922	0.000000	0.000000	0.000000	1.000000	1.000000	1.000000
VWAP_CLOUD_HIGH_binary	161.0	0.136646	0.344545	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000
VWAP_CLOUD_LOW_binary	161.0	0.801242	0.400310	0.000000	1.000000	1.000000	1.000000	1.000000	1.000000
VWAP_L1_binary	161.0	0.677019	0.469075	0.000000	0.000000	1.000000	1.000000	1.000000	1.000000
VWAP_L2_binary	161.0	0.900621	0.300104	0.000000	1.000000	1.000000	1.000000	1.000000	1.000000
VWAP_U1_binary	161.0	0.273292	0.447040	0.000000	0.000000	0.000000	1.000000	1.000000	1.000000
VWAP_U2_binary	161.0	0.093168	0.291574	0.000000	0.000000	0.000000	0.000000	1.000000	1.000000
ZIGZAG_HIGH_binary	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
ZIGZAG_LOW_binary	161.0	1.000000	0.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
14_MA_ENVELOPES_LOWER_binary	161.0	1.000000	0.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
14_MA_ENVELOPES_MID_binary	161.0	0.515528	0.501318	0.000000	0.000000	1.000000	1.000000	1.000000	1.000000
14_MA_ENVELOPES_UPPER_binary	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
VOLUME_DOWN_binary	161.0	0.006211	0.078811	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000
CP__S1_binary	161.0	0.503106	0.501550	0.000000	0.000000	1.000000	1.000000	1.000000	1.000000
BOLLI_500_MID_binary	161.0	0.534161	0.500388	0.000000	0.000000	1.000000	1.000000	1.000000	1.000000
BOLLI_500_UPPER_binary	161.0	0.335404	0.473605	0.000000	0.000000	0.000000	1.000000	1.000000	1.000000
CP__C_binary	161.0	0.422360	0.495476	0.000000	0.000000	0.000000	1.000000	1.000000	1.000000
VOLUME_binary	161.0	0.012422	0.111107	0.000000	0.000000	0.000000	0.000000	1.000000	1.000000
CP__R4_binary	161.0	0.068323	0.253087	0.000000	0.000000	0.000000	0.000000	1.000000	1.000000
CP__R5_binary	161.0	0.006211	0.078811	0.000000	0.000000	0.000000	0.000000	1.000000	1.000000
BOLLI_500_LOWER_binary	161.0	0.670807	0.471386	0.000000	0.000000	1.000000	1.000000	1.000000	1.000000
CP__S5_binary	161.0	0.906832	0.291574	0.000000	1.000000	1.000000	1.000000	1.000000	1.000000
CP__S2_binary	161.0	0.602484	0.490911	0.000000	0.000000	1.000000	1.000000	1.000000	1.000000
CP__R3_binary	161.0	0.198758	0.400310	0.000000	0.000000	0.000000	0.000000	1.000000	1.000000
CP__S6_binary	161.0	1.000000	0.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
CHAIKIN_binary	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
VOLUME_UP_binary	161.0	0.006211	0.078811	0.000000	0.000000	0.000000	0.000000	1.000000	1.000000
CP__R2_binary	161.0	0.254658	0.437028	0.000000	0.000000	0.000000	1.000000	1.000000	1.000000
CP__R6_binary	161.0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
CP__S4_binary	161.0	0.745342	0.437028	0.000000	0.000000	1.000000	1.000000	1.000000	1.000000
CP__S3_binary	161.0	0.652174	0.477767	0.000000	0.000000	1.000000	1.000000	1.000000	1.000000
CP__R1_binary	161.0	0.366460	0.483340	0.000000	0.000000	0.000000	1.000000	1.000000	1.000000

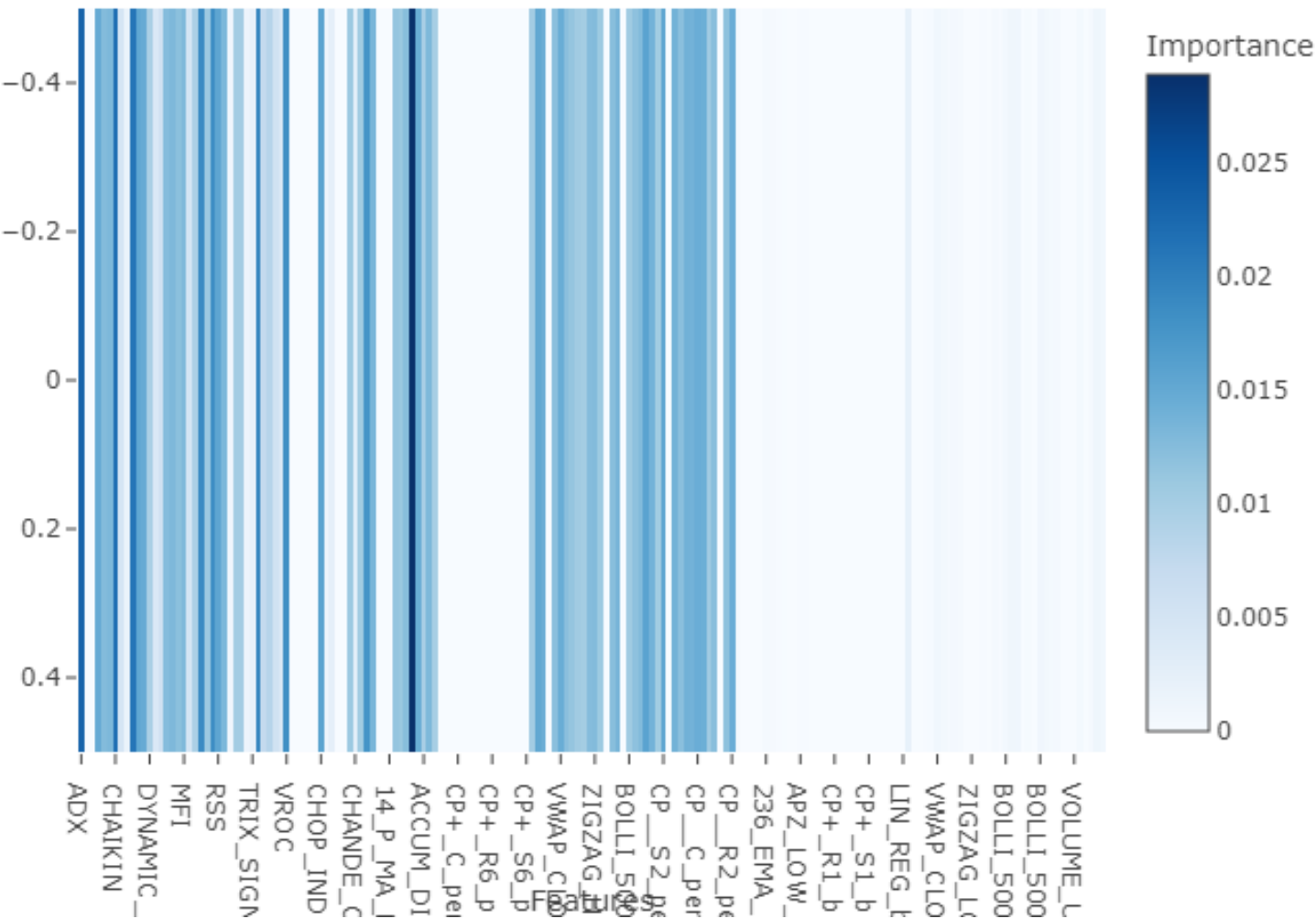
Confusion Matrix



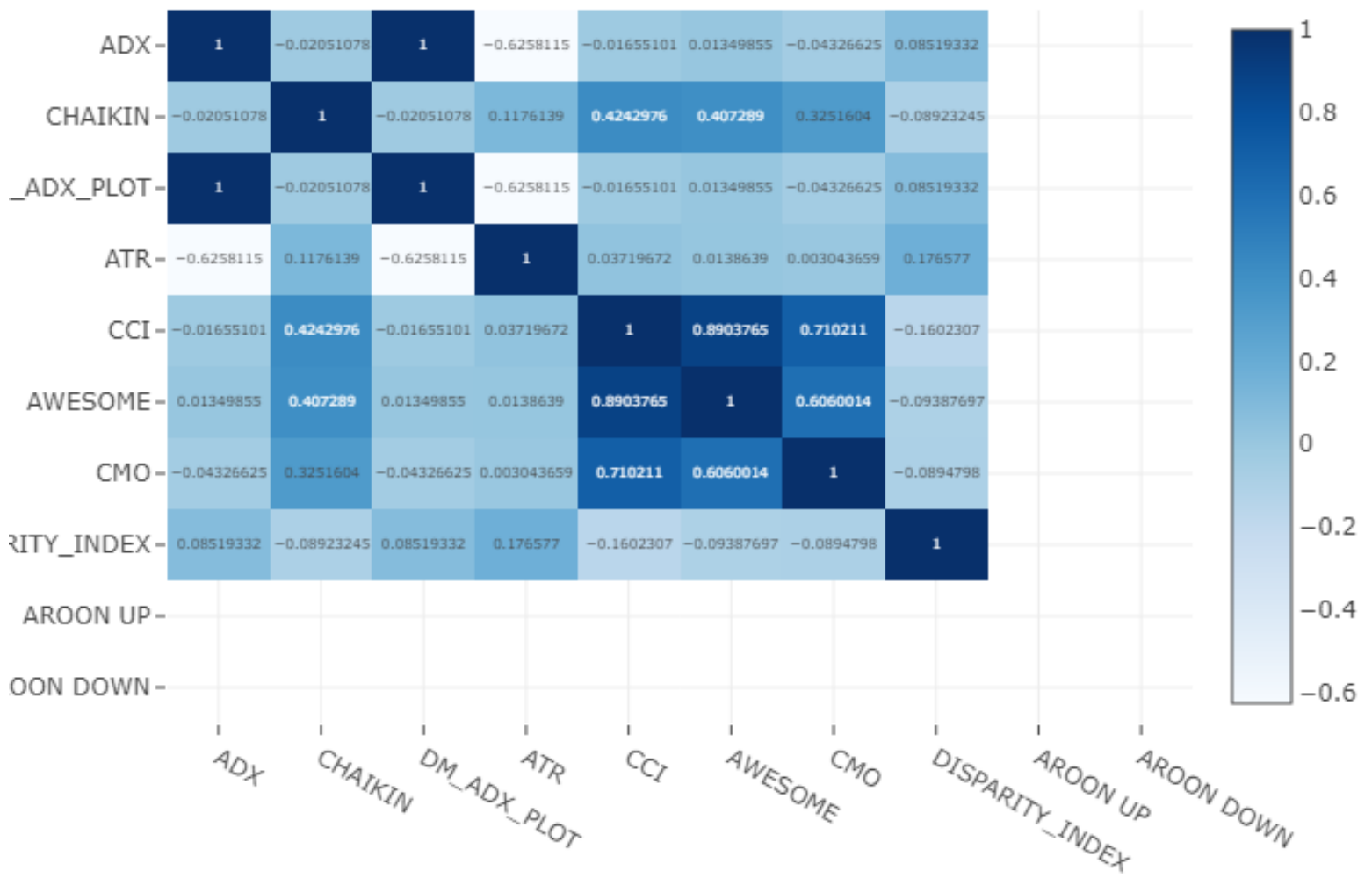
Feature Importance



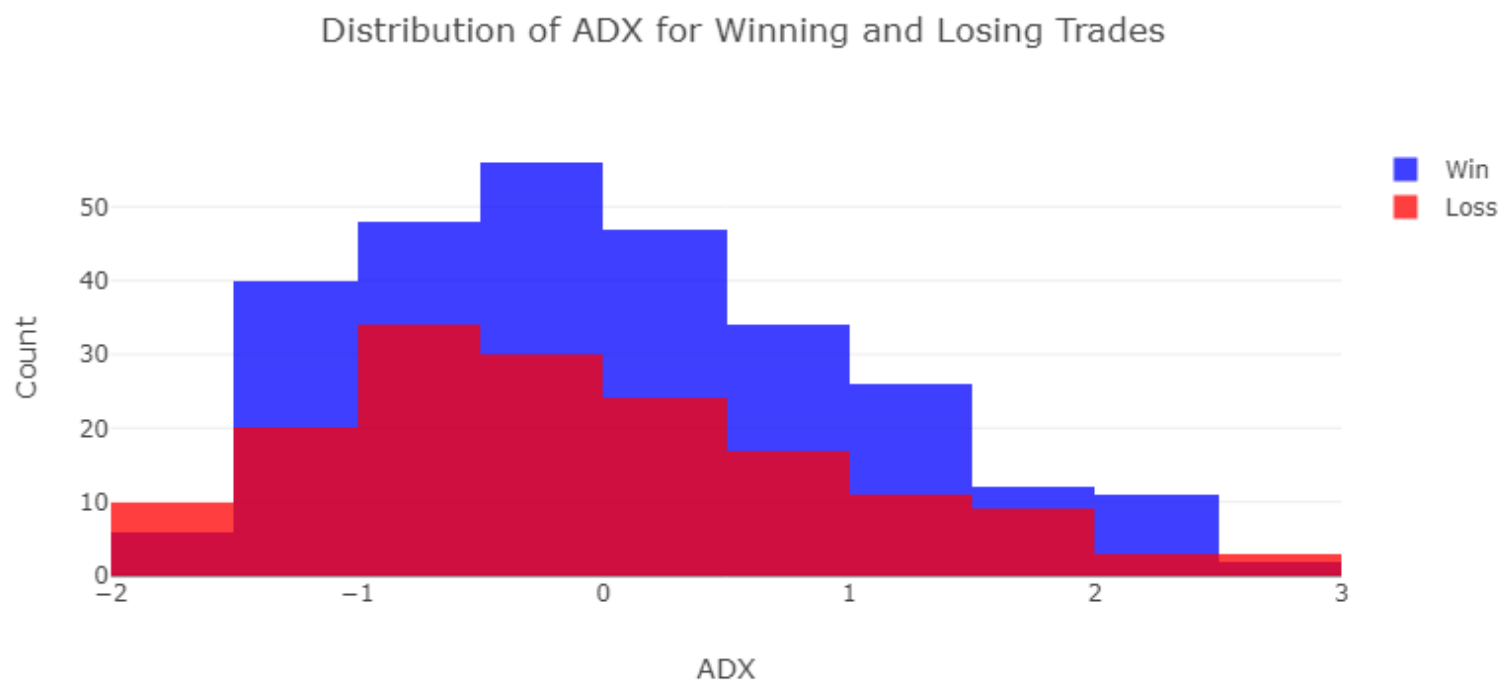
Feature Importance Heatmap



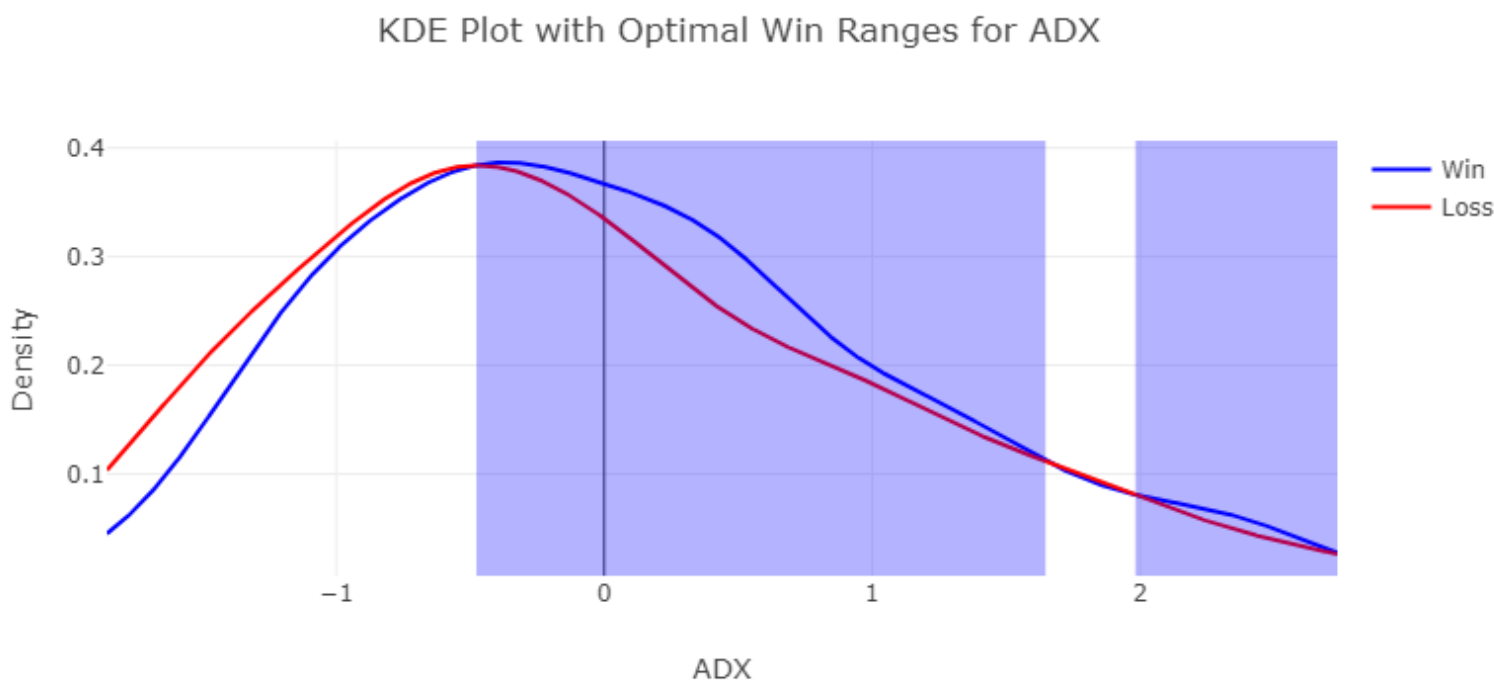
Correlation Matrix of Top Indicators



Distribution of ADX for Winning and Losing Trades



KDE Plot with Optimal Win Ranges for ADX



Mean Indicator Values for Losses

