Classification Report precision recall f1-score support 0.73 0.26 0.67 0.35 0.81 0.20 59 30 0 1 accuracy macro avg weighted avg 0.61 89 0.49 89 0.51 0.51 0.56 0.61 0.57 89 Accuracy Accuracy: 0.6067415730337079

Optimal Win Ranges Summary for Long Trades feature trade_type optimal_win_range_start optimal_win_range_end					
•	feature trade_type optimal_	win_range_start optin	nal_win_range_end		
0	LIN_REG_INTERCEPT_binary L	E -1.043850	-0.869515		
1	LIN_REG_INTERCEPT_binary L	E 0.591288	0.957992		
2	VWAP_CLOUD_LOW_binary L	.E -2.022858	-1.687734		
3		.E 0.038279	0.494350		
4	VWAP_CLOUD_HIGH_binary L	.E -0.425833	-0.231446		
5	VWAP_CLOUD_HIGH_binary L	.E 1.504148	2.348341		
6	BOLLI_500_LOWER_binary LE	-1.502449	-1.127005		
7	BOLLI_500_LOWER_binary LE	0.196817	0.665580		
8	1000_SMA_binary LE	-0.426201	0.993251		
9	VWAP_L1_binary LE	-1.448414	-0.949569		
10	VWAP_L1_binary LE	0.544825	0.690411		
11	BOLLI_500_MID_binary LE	-1.072607	-0.761534		
12	VWAP_L2_binary LE	-2.742122	-1.078318		
13	CP_S5_binary LE	-3.414256	-3.135942		
14	CPS5_binary LE	-0.215498	0.292890		

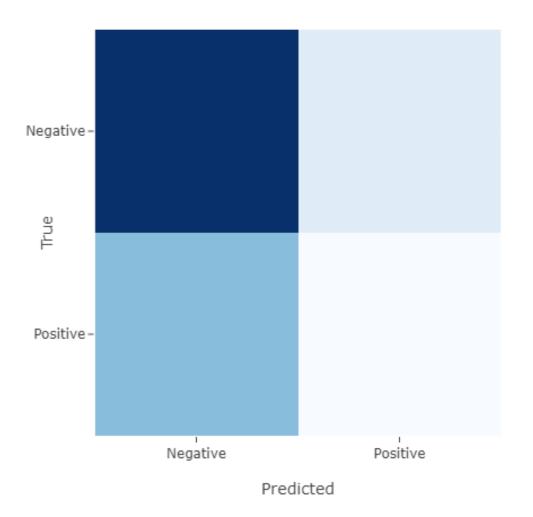
Optimal Win Ranges Summary for Short Trades						
Optimal Win Ranges Summary for Short Trades feature trade_type optimal_win_range_start optimal_win_range_end						
0	LIN_REG_INTERCEPT_binary	SE	0.104354	0.957992		
1	VWAP_CLOUD_LOW_binary	SE	-2.022858	-1.549149		
2	VWAP_CLOUD_LOW_binary	SE	0.171825	0.494350		
3	VWAP_CLOUD_HIGH_binary	SE	-0.425833	-0.089822		
4	VWAP_CLOUD_HIGH_binary	SE	1.640219	2.348341		
5	1000_SMA_binary ŚE		-1.006795	-0.838623		
6	1000_SMA_binary SE		0.630880	0.993251		
7	VWAP_L1_binary SE		-1.448414	0.566235		
8	BOLLI_500_MID_binary SE		-1.072607	0.605180		
9	VWAP_L2_binary SE		-2.742122	0.361571		
10		SE	-0.762983	-0.561640		
11		SE	0.893429	1.310645		
12	CP S5 binary SE		0.014575	0.292890		

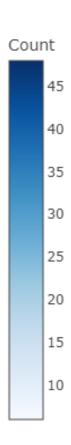
Optimal Win Ranges Summary for Both Long and Short Trades feature trade_type optimal_win_range_start optimal_win_range_end					
feature trade_type optimal_win_range_start optimal_win_range_end					
0 LIN_REG_INTERCEPT_binary	-1.043850	-0.807396			
1 LIN_REG_INTERCEPT_binary	0.541192	0.957992			
2 VWAP_CLOUD_LOW_binary	-2.022858	-1.710412			
3 VWAP_CLOUD_LOW_binary	0.146628	0.494350			
4 VWAP_CLOUD_HIGH_binary	-0.425833	-0.264769			
5 VWAP_CLOUD_HIGH_binary	1.562464	2.348341			
6 BOLLI_500_LOWER_binary	-1.502449	-1.341854			
7 BOLLI_500_LOWER_binary	0.266263	0.665580			
8 1000_SMA_binary	0.462708	0.993251			
9 VWAP_L1_binary	-1.448414	-1.108000			
10 VWAP_L1_binary	0.347856	0.690411			
11 BOLLI 500 MID binary	-1.072607	-0.735444			
12 BOLLI_500_MID_binary	0.587118	0.932308			
13 VWAP_L2_binary	-2.742122	-1.252473			
14 BOLLI 500 UPPER binary	-0.762983	-0.704863			
15 BOLLI 500 UPPER binary	0.750205	1.310645			
16 CPS5_binary	-0.067063	0.292890			
-					

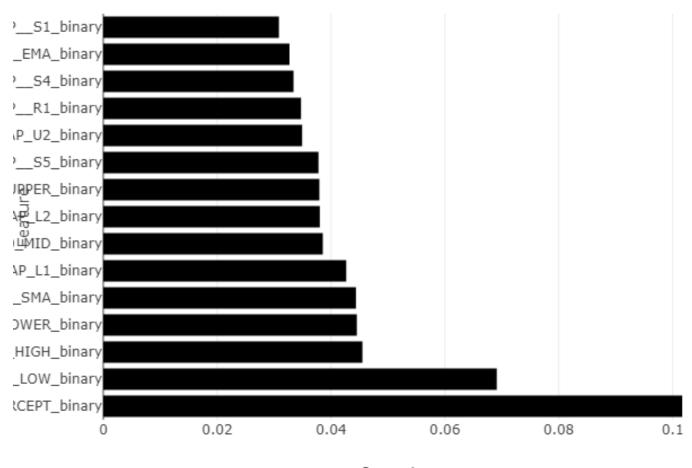
Loss Mitigation Analysis	
count	mean std min 25% 50% 75% max
1000_SMA_binary 144_SMA_binary	282.0 0.057059 9.997579e-01 -1.006795 -1.006795 0.993251 0.993251 0.99325 282.0 0.034499 1.000166e+00 -1.029789 -1.029789 0.971073 0.971073 0.97107
	OWER_binary 282.0 0.000000 0.000000e+00 0.000000 0.000000 0.000000 0.00
14_P_MA_ENVELOPES_I	MID_binary
14_P_MA_ENVELOPES_	JPPER_binary 282.0 0.000000 0.000000e+00 0.000000 0.000000 0.000000 0.000
236_EMA_binary	282.0 0.026755 1.000995e+00 -1.015928 -1.015928 0.984322 0.984322 0.98432 282.0 0.031309 9.993687e-01 -1.062924 -1.062924 0.940801 0.940801 0.940801
382_EMA_binary 618_EMA_binary	282.0 0.026793 9.996551e-01 -1.062924 -1.062924 0.940601 0.940601 0.94060 282.0 0.026793 9.996551e-01 -1.067753 -1.067753 0.936546 0.936546 0.93654
CO ZI EMA binoni	202.0.0.020225 4.0007402.00.0.070006 0.070006 0.070006 4.020527 4.0204
8_ZLEMA_binary 8_ZLEMA_binary ACCUM_DIST_binary APZ_LOW_binary	282.0 -0.034499 1.000166e+00 -0.971073 -0.971073 -0.971073 1.029789 1.0297
ACCUM_DIST_binary	282.0 0.000000 0.000000e+00 0.000000 0.000000 0.000000 0.00
APZ_LOW_binary  APZ_UPPER_binary	282.0 -0.003904 1.025022e+00 -12.110601 0.082572 0.082572 0.082572 0.082 282.0 0.060999 1.251494e+00 -0.106843 -0.106843 -0.106843 -0.106843 9.359
BOLLI_500_P_LOWER_b	
BOLLI_500_P_MID_binary	282.0 0.000000 0.000000e+00 0.000000 0.000000 0.000000 0.00
BOLLI_500_P_UPPER_bi	nary 282.0 0.000000 0.000000e+00 0.000000 0.000000 0.000000 (
CP+_C_binary	282.0 0.000000 0.000000e+00 0.000000 0.000000 0.000000 0.000000
CP+_R1_binary 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
CP+_R6_binary CP+_S1_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+_S3_binary	282.0 0.000000 0.000000e+00 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
CP+_S6_binary LIN_REG_binary	282.0 0.000000 0.000000e+00 0.000000 0.000000 0.000000 0.000000 0.000000
LIN_REG_INTERCEPT_b	
OBV binary	282.0 0.000000 0.000000e+00 0.000000 0.000000 0.000000 0.000000 0.000000
VROC_binary VWAP_binary	282.0 -0.047565 6.951230e-18 -0.047565 -0.047565 -0.047565 -0.047565 -0.047565
VWAP_binary VWAP_CLOUD_HIGH_bir	282.0 0.016480 1.002500e+00 -0.949362 -0.949362 -0.949362 1.053339 1.053339 hary 282.0 0.026692 1.026812e+00 -0.425833 -0.425833 -0.425833 -0.425833
V/MAP CLOUD LOW him	ary 282 0 0 003405 0 0016146-01 -2 022858 0 404350 0 404350 0 404350
VWAP_L1_binary	282.0 0.000223 1.001693e+00 -1.448414 -1.448414 0.690411 0.690411 0.6904 282.0 -0.031932 1.038615e+00 -2.742122 0.364681 0.364681 0.364681 0.3646 282.0 0.022500 1.011833e+00 -0.640959 -0.640959 -0.640959 1.560163 1.560 282.0 0.015898 1.022443e+00 -0.336252 -0.336252 -0.336252 -0.336252 2.973 282.0 0.000000 0.000000e+00 0.000000 0.000000 0.000000 0.000000 0.000000
VWAP_L2_binary	282.0 -0.031932 1.038615e+00 -2.742122 0.364681 0.364681 0.364681 0.3646
VWAP_U1_binary	282.0 0.022500 1.011833e+00 -0.640959 -0.640959 -0.640959 1.560163 1.5601
7IGZAG HIGH binary	282.0 0.013696 1.0224436+00 -0.336232 -0.336232 -0.336232 -0.336232 -0.336232 -0.336232 -0.336232
ZIGZAG LOW binary	282.0 -0.027156 1.254781e+00 -21.023796 0.047565 0.047565 0.047565 0.04
14_IMA_ENVELOPES_LO	WER_DINARY 282.0 0.000000 0.000000e+00 0.000000 0.000000 0.000000 0.000
	D_binary 282.0 -0.031917 1.000473e+00 -0.975470 -0.975470 -0.975470 1.02514
VOLUME_DOWN_binary	PER_binary 282.0 0.000000 0.000000e+00 0.000000 0.000000 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000
CP S1 binary	282.0 0.065227 9.917222e-01 -1.127739 -1.127739 0.886730 0.886730 0.886730
BOLL 500 MÍD binary	282.0 0.000947 1.001711e+00 -1.072607 -1.072607 0.932308 0.932308 0.93
BOLLI_500_UPPER_bina	y 282.0 0.038526 1.011555e+00 -0.762983 -0.762983 -0.762983 1.310645 1
CP_C_binary	282.0 0.069361 1.0017226+00 -0.966694 -0.966694 1.034453 1.034453 1.034453
CP R4 binary	282.0 0.069361 1.001722e+00 -0.966694 -0.966694 1.034453 1.034453 1.034453 282.0 -0.067344 2.780492e-17 -0.067344 -0.015921e+00 -0.279032 -0.279032 -0.279032 -0.279032 3.58381 282.0 0.050795 1.170447e+00 -0.135613 -0.135613 -0.135613 -0.135613 7.37394
CPR5_binary	282.0 0.050795 1.170447e+00 -0.135613 -0.135613 -0.135613 -0.135613 7.37394
CP_S5_binary	282.U U.U29971 9.5329556-U1 -3.414256 U.29289U U.29289U 0.29289U 0.29289U 0.29289U 0.29289U 0.29289U 0.29289U
CP R3 hinary	-202.0-0.032234-3.3231046-01-1.304306-1.304306-0.700030-0.700030-0.700030 -282.0-0.030895-1.021886e+00-0.532971-0.532971-0.532971-0.532971-1.87627
CPS6_binary	282.0 0.000000 0.000000e+00 0.000000 0.000000 0.000000 0.000000
CHAIKIN_binary	282.0 0.000000 0.000000e+00 0.000000 0.000000 0.000000 0.000000
VOLUME_UP_binary	282.0 -0.047565 6.951230e-18 -0.047565 -0.047565 -0.047565 -0.047565 -0.04
CPK∠_DINATY   CPR6_bipan/	
CP S4 binary	78
	3.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5

Loss Mitigation Analysis CP\_\_S3\_binary CP\_\_R1\_binary

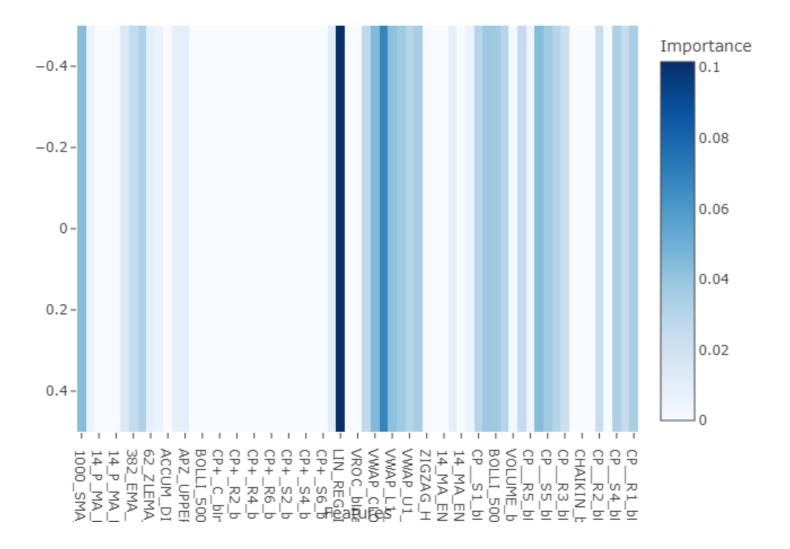
282.0 0.024958 9.922190e-01 -1.433587 -1.433587 0.697551 0.697551 0.697555 282.0 0.033371 1.008376e+00 -0.808075 -0.808075 -0.808075 1.237509 1.237509

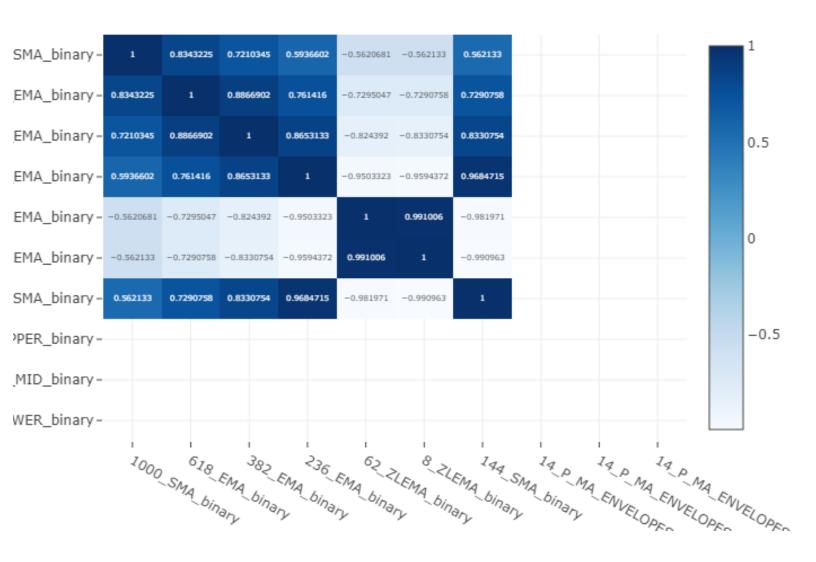




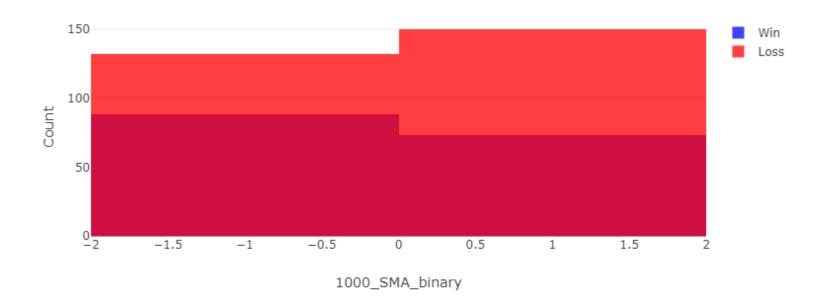


Importance

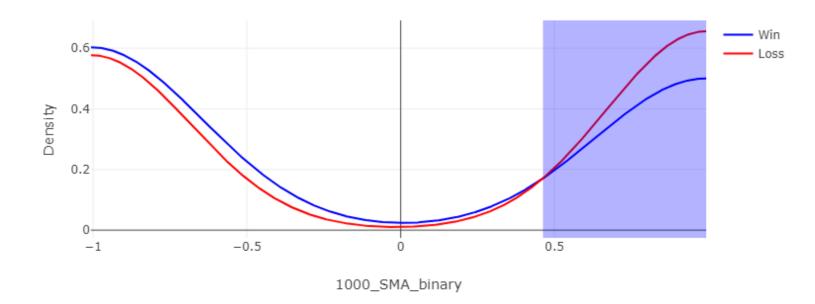




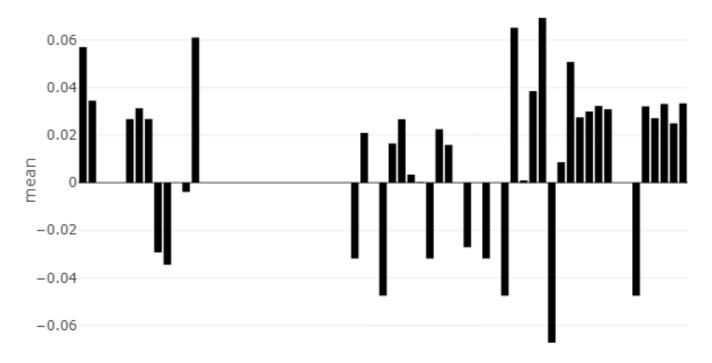
## Distribution of 1000\_SMA\_binary for Winning and Losing Trades



## KDE Plot with Optimal Win Ranges for 1000\_SMA\_binary



## Mean Indicator Values for Losses



CP\_\_R1\_bin
CP\_\_S4\_bin
CP\_\_R3\_bin
CP\_\_R3\_bin
CP\_\_R3\_bin
CP\_\_R5\_bin
CP\_\_R5\_bin
CP\_\_R5\_bin
VOLUME\_bir
BOLLI\_500\_
CP\_\_S1\_bin
14\_MA\_ENV
2IGZAG\_HI(
VWAP\_L1\_b
VWAP\_L1\_b
VWAP\_CLQC
VROC\_bindle
CP+\_R6\_bir
CP+\_R6\_bir
CP+\_R6\_bir
CP+\_R6\_bir
CP+\_R6\_bir
CP+\_R6\_bir
CP+\_R4\_bir
CP+\_R6\_bir
CP+\_R5\_bir
CP+\_R6\_bir
CP+\_R6\_bir