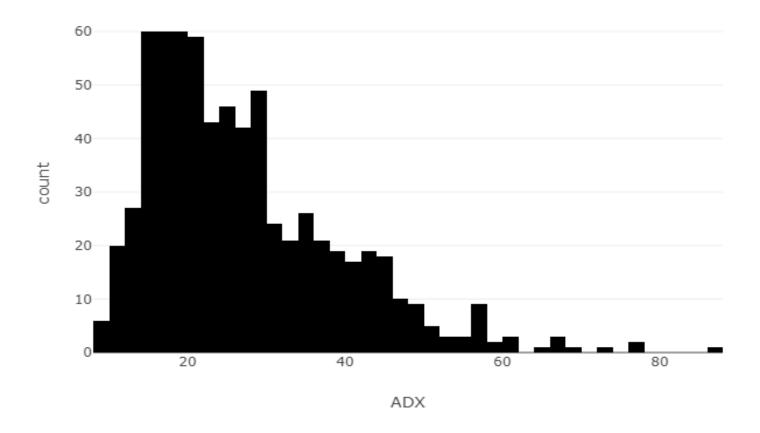
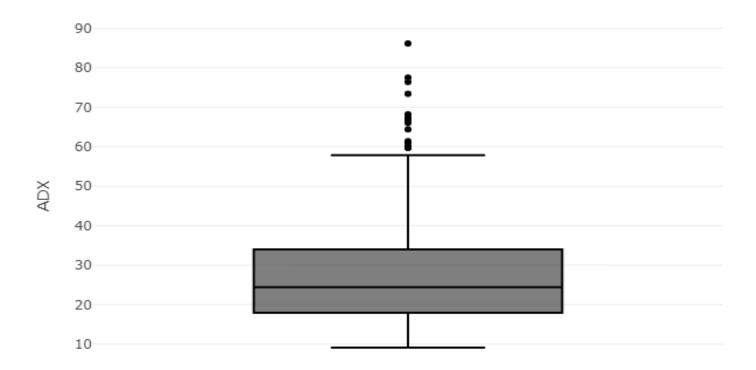
Histogram of ADX



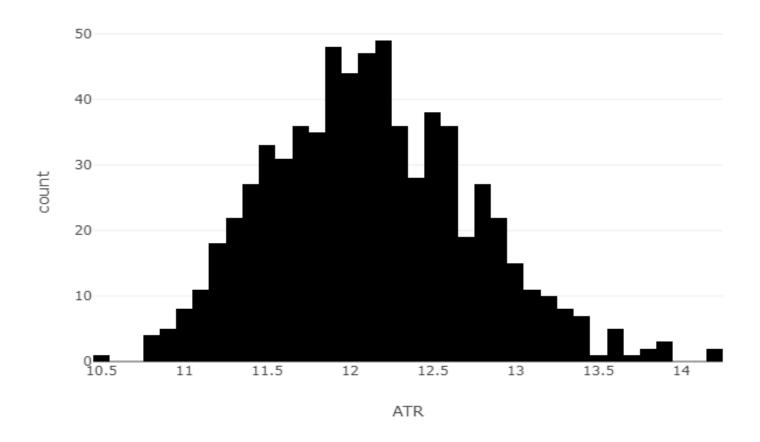
Histogram of ADX

Box Plot of ADX



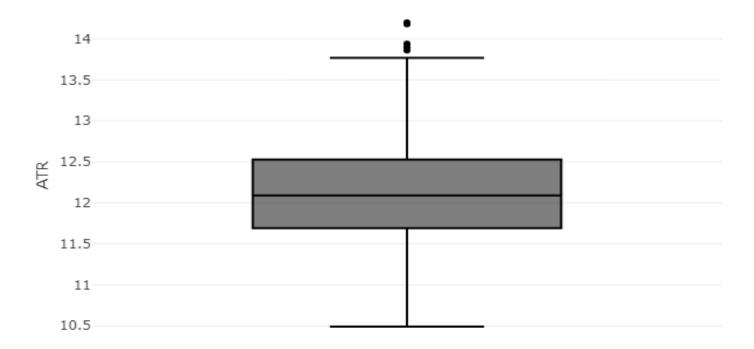
Box Plot of ADX

Histogram of ATR



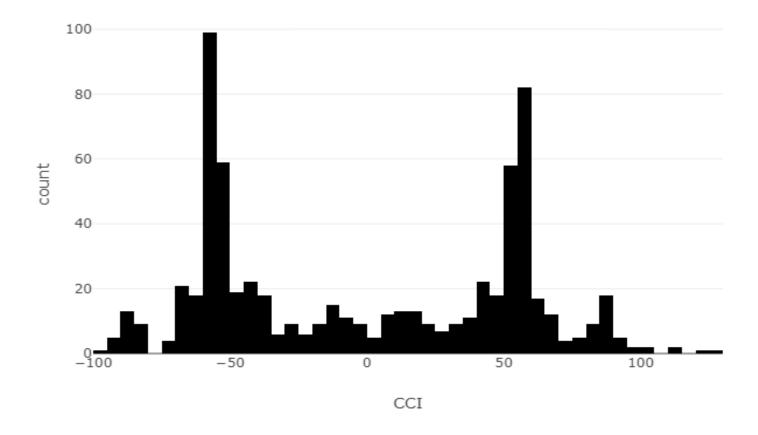
Histogram of ATR

Box Plot of ATR

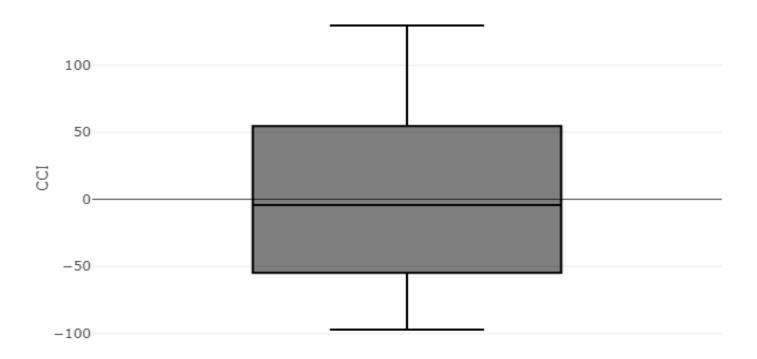


Box Plot of ATR

Histogram of CCI

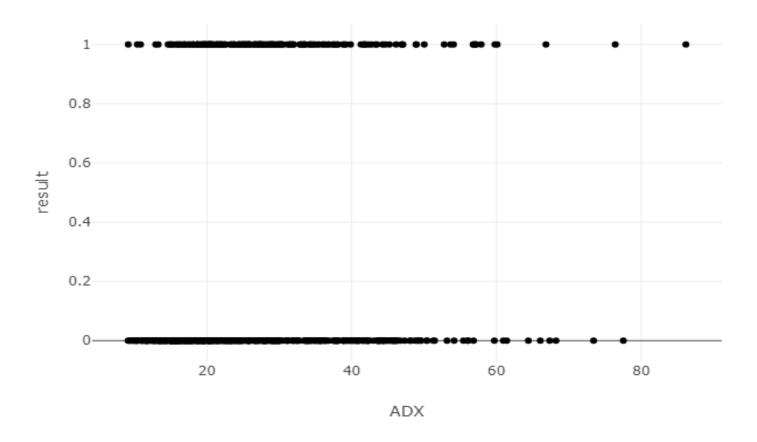


Histogram of CCI



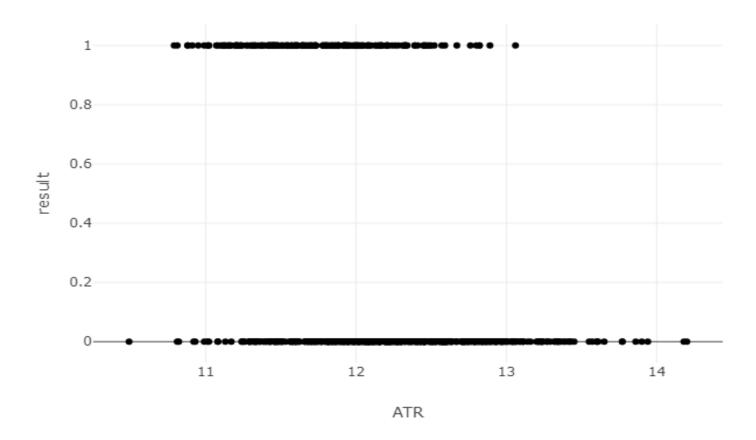
Box Plot of CCI

Scatter Plot of ADX vs result



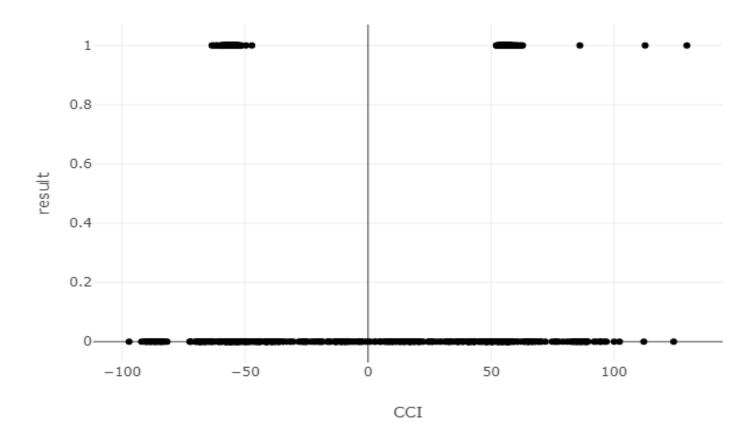
Scatter Plot of ADX vs result

Scatter Plot of ATR vs result



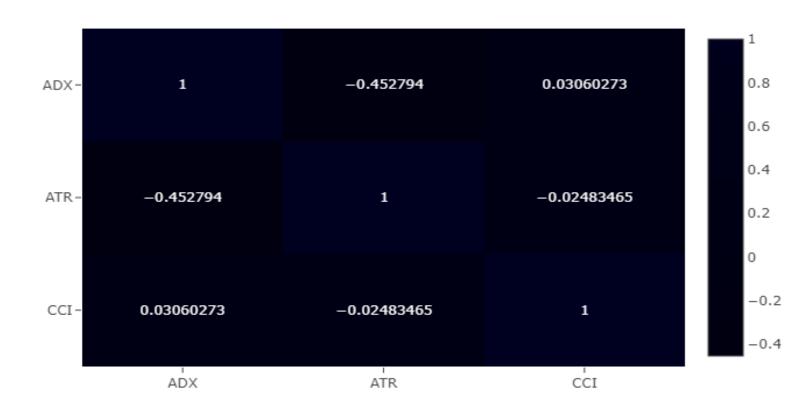
Scatter Plot of ATR vs result

Scatter Plot of CCI vs result



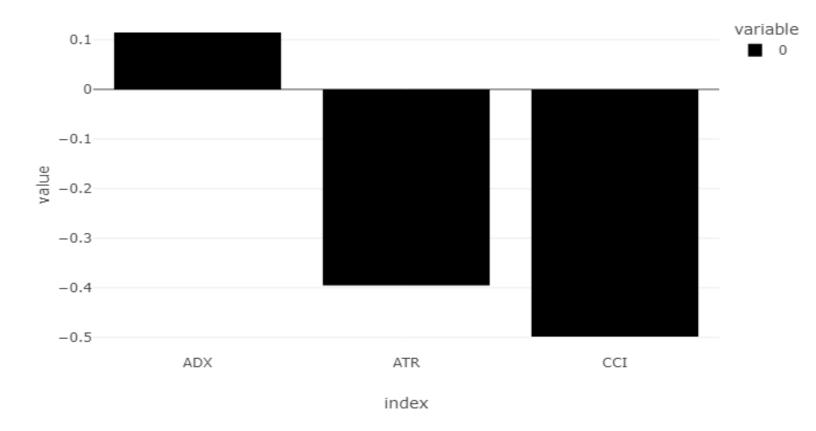
Scatter Plot of CCI vs result

Correlation Matrix



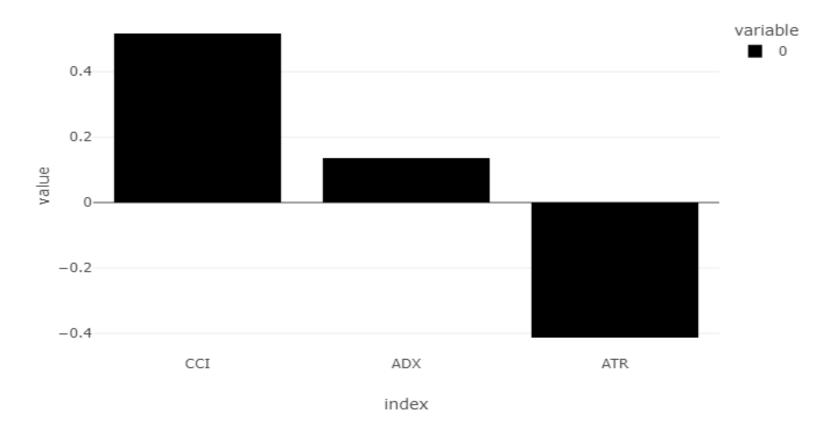
Correlation Matrix

Correlation with Target Variable (Long Trades)



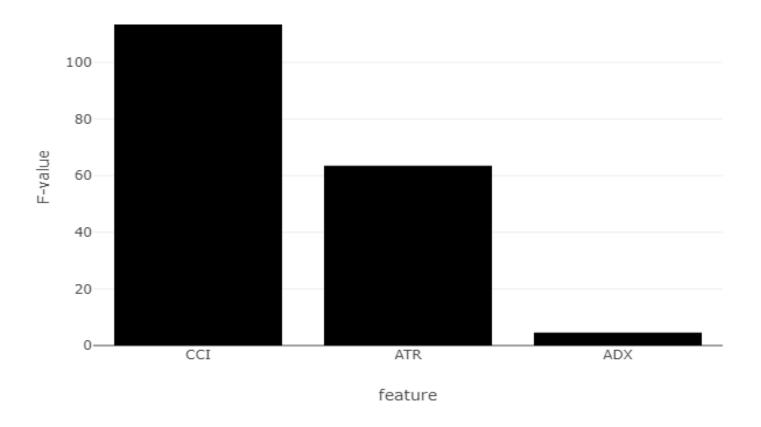
Correlation with Target Variable (Long Trades)

Correlation with Target Variable (Short Trades)



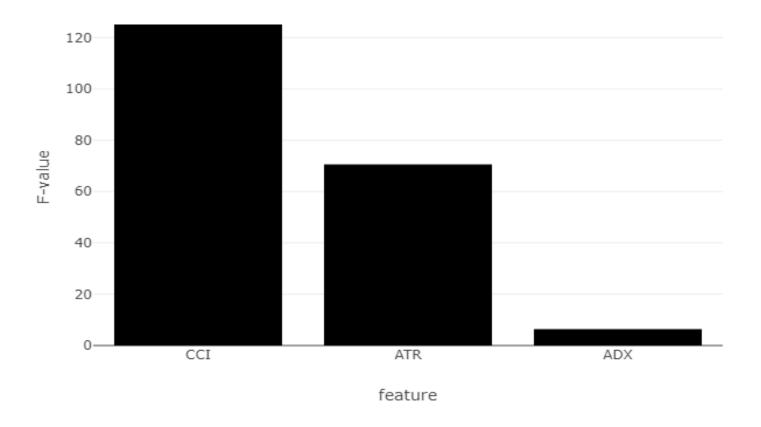
Correlation with Target Variable (Short Trades)

ANOVA F-Test Scores (Long Trades)



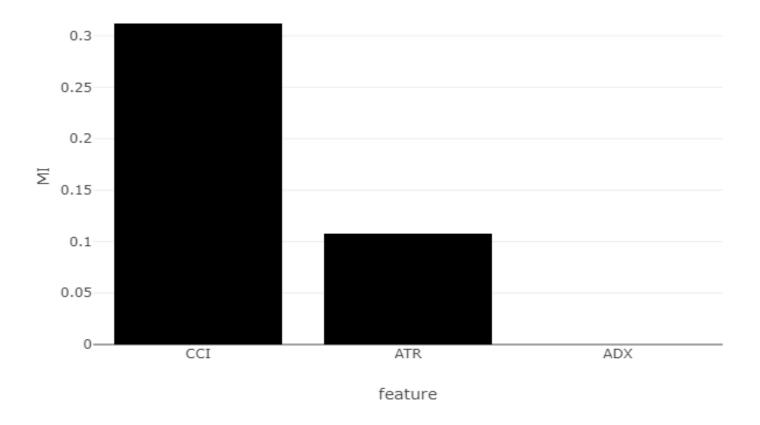
ANOVA F-Test Scores (Long Trades)

ANOVA F-Test Scores (Short Trades)



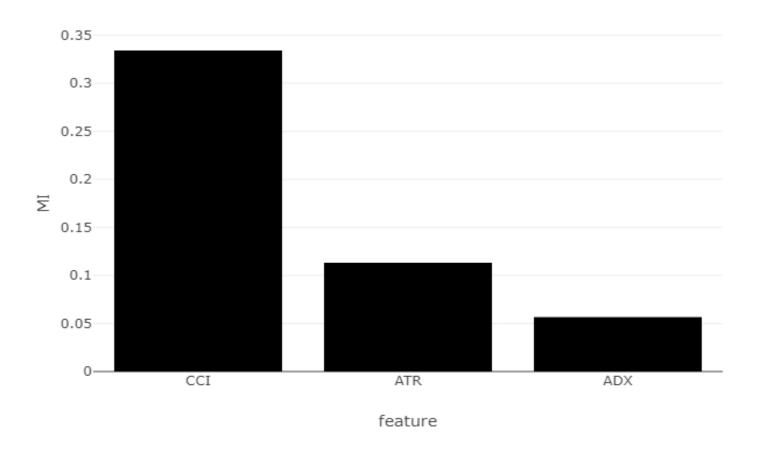
ANOVA F-Test Scores (Short Trades)

Mutual Information Scores (Long Trades)



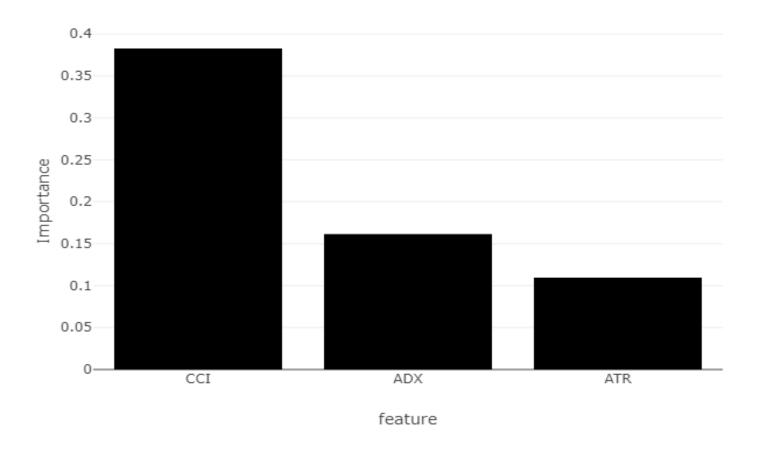
Mutual Information Scores (Long Trades)

Mutual Information Scores (Short Trades)



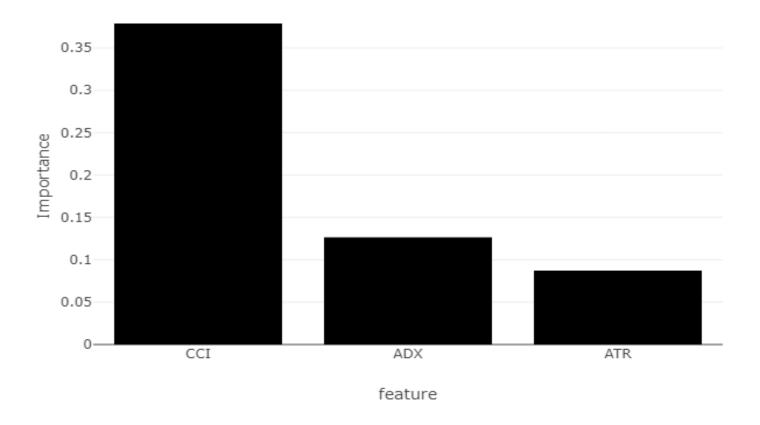
Mutual Information Scores (Short Trades)

Permutation Importance Scores (Long Trades)



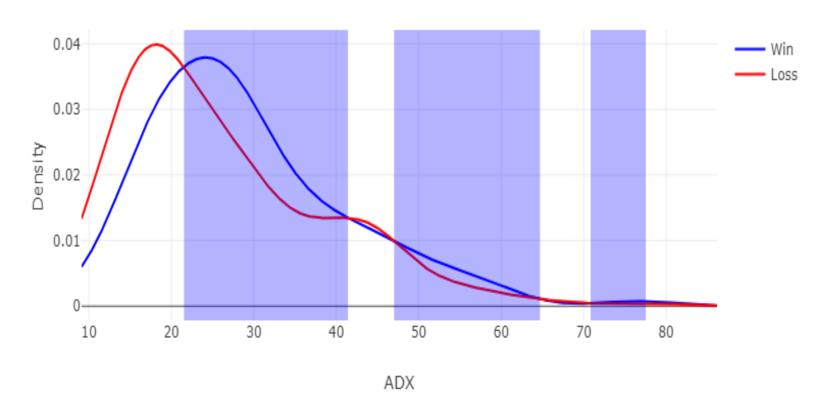
Permutation Importance Scores (Long Trades)

Permutation Importance Scores (Short Trades)



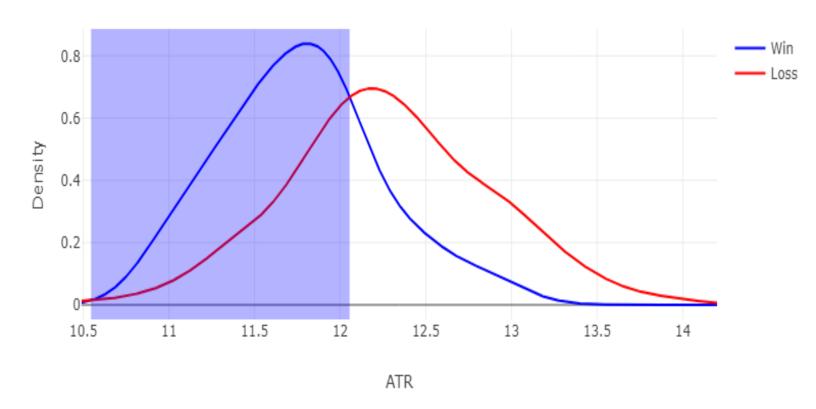
Permutation Importance Scores (Short Trades)

KDE Plot with Optimal Win Ranges for ADX (LE)



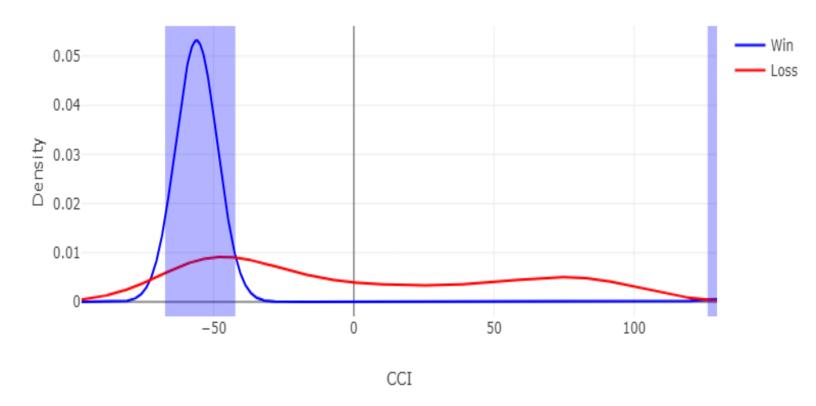
KDE Plot with Optimal Win Ranges for Win (LE)

KDE Plot with Optimal Win Ranges for ATR (LE)



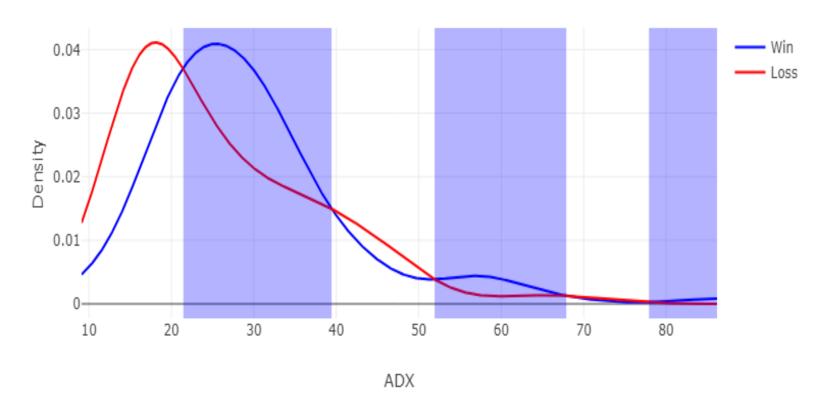
KDE Plot with Optimal Win Ranges for Win (LE)

KDE Plot with Optimal Win Ranges for CCI (LE)



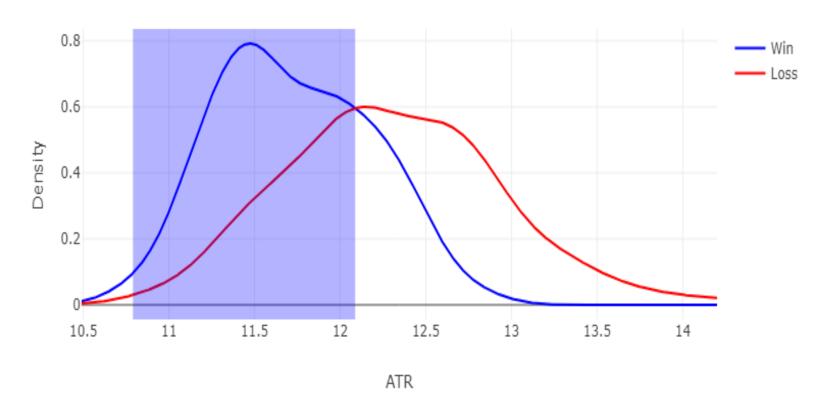
KDE Plot with Optimal Win Ranges for Win (LE)

KDE Plot with Optimal Win Ranges for ADX (SE)



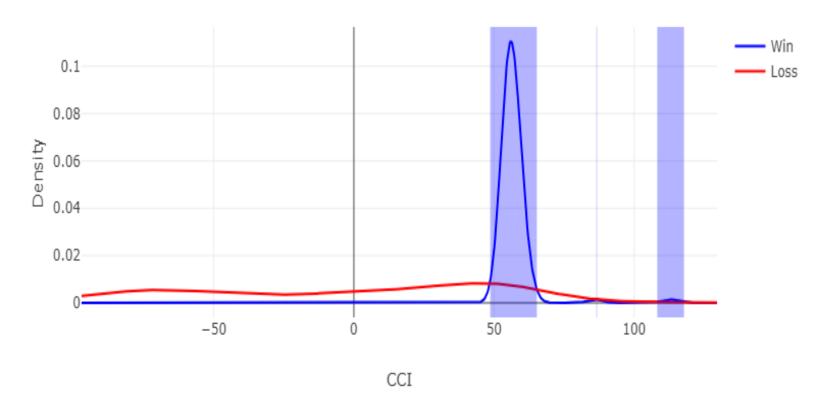
KDE Plot with Optimal Win Ranges for Win (SE)

KDE Plot with Optimal Win Ranges for ATR (SE)



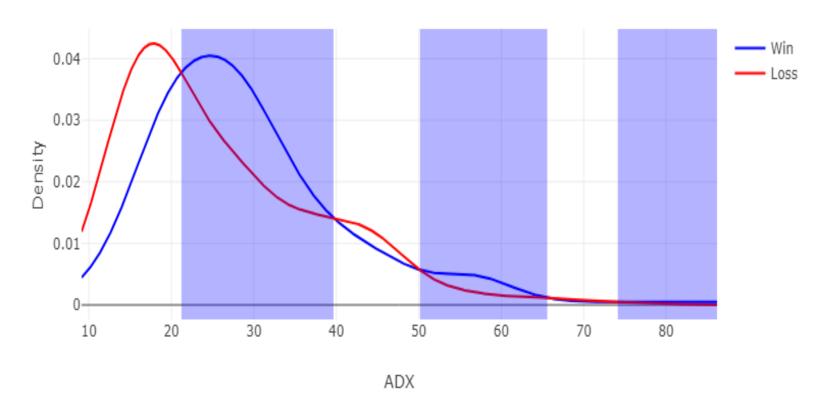
KDE Plot with Optimal Win Ranges for Win (SE)

KDE Plot with Optimal Win Ranges for CCI (SE)



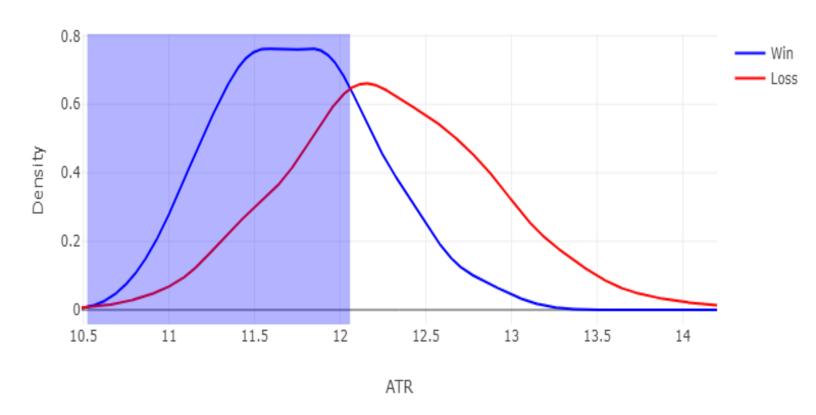
KDE Plot with Optimal Win Ranges for Win (SE)

KDE Plot with Optimal Win Ranges for ADX ()



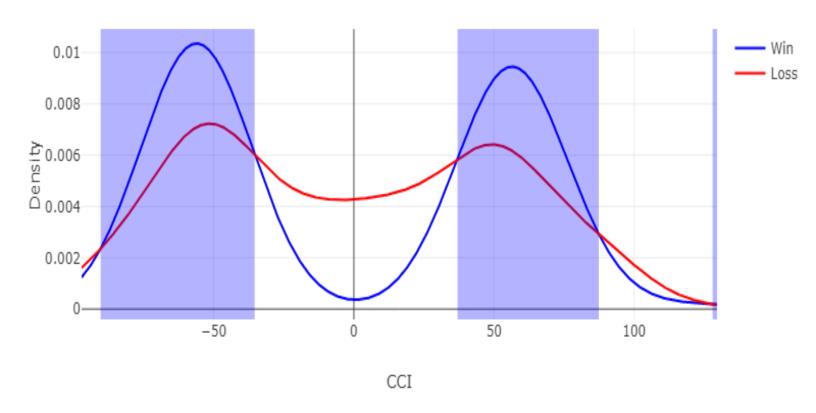
KDE Plot with Optimal Win Ranges for Win (Both)

KDE Plot with Optimal Win Ranges for ATR ()



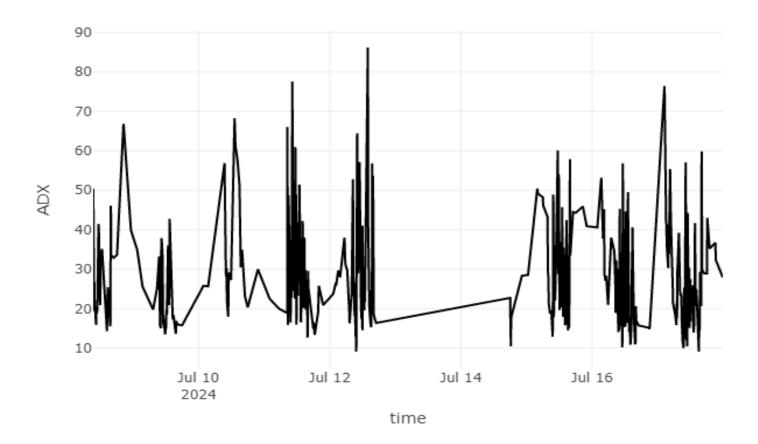
KDE Plot with Optimal Win Ranges for Win (Both)

KDE Plot with Optimal Win Ranges for CCI ()



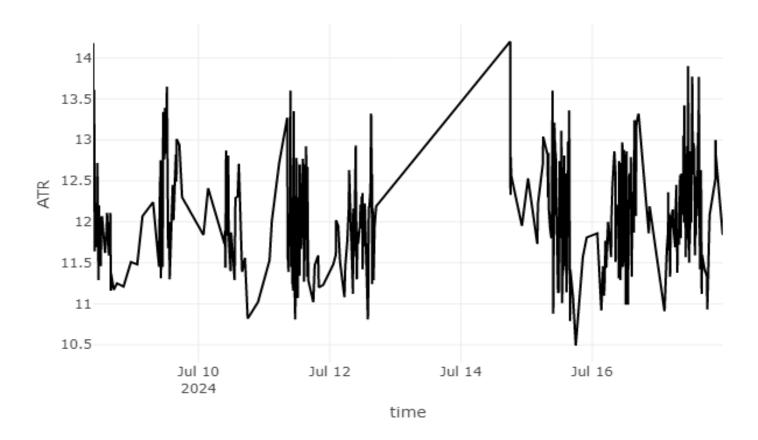
KDE Plot with Optimal Win Ranges for Win (Both)

ADX Over Time



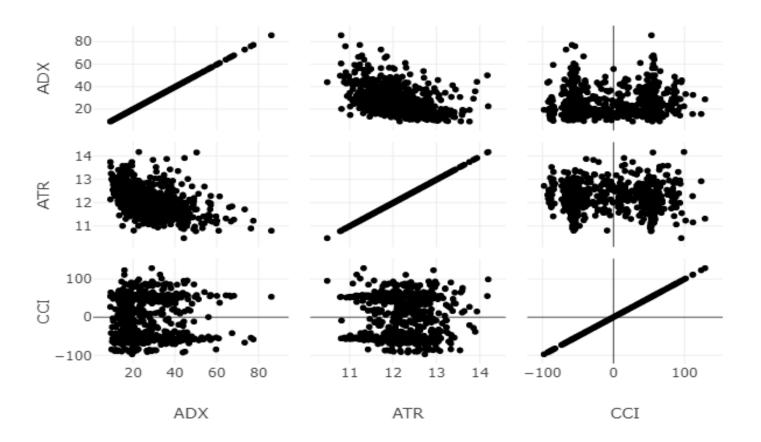
ADX Over Time

ATR Over Time



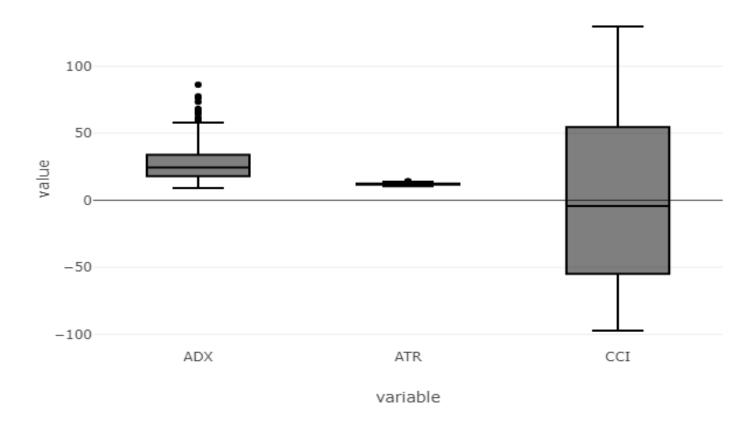
ATR Over Time

Pairplot of Selected Indicators



Pairplot of Selected Indicators

Boxplot of Selected Indicators



Boxplot of Selected Indicators

count	mean	at d	min	25%	50%	75%	max
0.00	27.2266231884058	12.205346055116623	9.11	17.9925	24.455	34.0049999999995	85.17
690.0	12.125130434782609	0.6151582965197695	10.49	11.69	12.09	12.5275	14.2
090.0	-0.36813043478260854	55.0039212549974	-97.15	-54.8775	4.220000000000001	54.585	129.59

Correlation (Long Trades)	
0.11469654091341713	
-0.3953125456056138	
-0.49840984876723987	

feature	F-value	p-value
CCI	113.36728128890309	4.604320048311667e-23
ATR	63.529122587076664	2.3670458433308536e-14
ADX	4.572418215984965	0.03319680695503412

feature	MI
CCI	0.31199528822615963
ATR	0.1077193985514755
ADX	0.0

feature	Importance	
CCI	0.38270531400966185	
ADX	0.16144927536231882	
ATR	0.10946859903381641	

Correlation (Short Trades)
0.5169845456245974
0.13554961087983294
-0.413042025751982

feature	F-value	p-value
CCI	125.11433119893164	5.684572309475175e-25
ATR	70.55381766074122	1.2016024357932783e-15
ADX	6.420139777346888	0.011727923921789707

feature	MI
CCI	0.334179200998977
ATR	0.11323023647737518
ADX	0.056683787018232845

feature	Importance
CCI	0.378743961352657
ADX	0.1264734299516908
ATR	0.08724637681159422

feature	trade_type	optimal_win_range_start	optimal_win_range_end
ADX	LE	21.533603603603602	41.405495495494
ADX	LE	47.005135135135134	64.6918018018
ADX	LE	70.83774774774	77.53
ATR	LE	10.545255255255256	12.054414414414
CCI	LE	-67.343333333333	-42.307764431097766
CCI	LE	126.2387821154488	129.59

feature	trade_type	optimal_win_range_start	optimal_win_range_end
ADX	SE	21.451941941943	39.4248948948949
ADX	SE	51.9211111111112	67.8884984985
ADX	SE	77.91632632632633	86.17
ATR	SE	10.79	12.087097097097
CCI	SE	48.65726726726	65.27663663663662
CCI	SE	86.54942942941	86.771021021021
CCI	SE	108.2654054054	117.79384384384383

feature	trade_type	optimal_win_range_start	optimal_win_range_end
ADX		21.22053053053053	39.656306306306305
ADX		50.14695695695696	65.57438438438439
ADX		74.1366066066066	86.17
ATR		10.523423423424	12.057187187187
CCI		-90.340990990991	-35.41498498498499
CCI		36.98747747747	87.37414414414
CCI		128.00123123123123	129.59

The feature 'ADX' has a low correlation score of 0.11 for l be very influential in determining Long outcomes. How	Long trades, indicating a we vever, do not discard it outri indicators.	eaker relationship with the targ ight; it may still provide value i	et variable. 'ADX' might no n combination with other

The feature 'ATR' has a low correlation score of -0.40 for Long to be very influential in determining Long outcomes. However, or	rades, indicating a weake do not discard it outright; indicators.	er relationship with the targe it may still provide value in	t variable. 'ATR' might not combination with other

The feature 'CCI' has a low correlation score of -0.50 for Lo be very influential in determining Long outcomes. However	ong trades, indicating a weake ver, do not discard it outright; indicators.	er relationship with the target v ; it may still provide value in co	ariable. 'CCI' might not mbination with other

The feature 'CCI' has a high ANOVA F-Test score of 113.37 for Long trades changes in 'CCI' are strongly associated with Long outcomes. Consider u	s, indicating a strong influence on the target variable. This means using this feature for developing strategies or setting thresholds.

The feature 'ATR' has a high ANOVA F-Test score of 63.53 for Long trades, indicating a strong influence on the ta changes in 'ATR' are strongly associated with Long outcomes. Consider using this feature for developing strateg	rget variable. This means ies or setting thresholds.

The feature 'ADX' has a high ANOVA changes in 'ADX' are strongly associ	A F-Test score of 4.57 for Long tiated with Long outcomes. Cor	trades, indicating a strong influe nsider using this feature for deve	nce on the target variable. This means loping strategies or setting thresholds.

The feature 'CCI' has a low Mutual Information score of 0.31 might not be very influential in determining Long outcomes. H	. for Long trades, indicati However, do not discard i other indicators.	ng a weaker relationship wit it outright; it may still provic	th the target variable. 'CCI' le value in combination with

The feature 'ATR' has a low Mutual Information score of (might not be very influential in determining Long outcome	0.11 for Long trades, indicat nes. However, do not discard other indicators.	ting a weaker relationship with I it outright; it may still provide	the target variable. 'ATR' value in combination with

The feature 'ADX' has a low Mutual Information score of 0.00 for might not be very influential in determining Long outcomes. How ot	Long trades, indicating a we vever, do not discard it outric ther indicators.	eaker relationship with the tar ght; it may still provide value	get variable. 'ADX' in combination with

The feature 'CCI' has a low Permutation Importance of might not be very influential in determining Long of	score of 0.38 for Long trades, ir utcomes. However, do not disca other indicators.	ndicating a weaker relationship ard it outright; it may still prov	o with the target variable. 'CCI' ide value in combination with

The feature 'ADX' has a low P 'ADX' might not be very influen	Permutation Importance scorential in determining Long out	e of 0.16 for Long trades, comes. However, do not o with other indicators.	indicating a weaker relation discard it outright; it may s	onship with the target variable. till provide value in combination

The feature 'ATR' has a low Permutation Importance score of 0.11 for 'ATR' might not be very influential in determining Long outcomes. How with othe	r Long trades, indicating a weaker relationship with the target variable. vever, do not discard it outright; it may still provide value in combination r indicators.

The feature 'CCI' has considering 'C	s a moderate correlatior CCI' when analyzing you	score of 0.52 for Shor r trading strategy. Lool	t trades, suggesting a no k at how this feature inte	otable impact on the targ eracts with others for a co	et variable. It is worth mbined effect.

The feature 'ADX' has a low be very influential in dete	correlation score of 0.14 for S ermining Short outcomes. How	hort trades, indicating a rever, do not discard it ou indicators.	weaker relationship with th itright; it may still provide	ne target variable. 'ADX' might value in combination with othe	not r



The feature 'CCI' has a high ANOVA F-Test score of 125.11 for Short trades, indicating a strong influence on the changes in 'CCI' are strongly associated with Short outcomes. Consider using this feature for developing strate	target variable. This means egies or setting thresholds.

The feature 'ATR' has a high ANOVA F-Test score of 70.55 for Short trades, indicating a strong influence changes in 'ATR' are strongly associated with Short outcomes. Consider using this feature for developing	on the target variable. This means ng strategies or setting thresholds.

The feature 'ADX' has a high ANOVA F.Test score of 6.42 for	r Short trades indicating a strong	g influence on the target variable. This	means
The feature 'ADX' has a high ANOVA F-Test score of 6.42 for changes in 'ADX' are strongly associated with Short outcom	ies. Consider using this feature f	or developing strategies or setting thre	sholds.

The feature 'CCI' has a low Mutual Inf might not be very influential in determ	formation score of 0.33 for S iining Short outcomes. Howe oth	Short trades, indicating a sever, do not discard it out er indicators.	weaker relationship with the right; it may still provide va	e target variable. 'CCI' llue in combination with

The feature 'ATR' has a low Mutual Information score of 0.1 might not be very influential in determining Short outcomes.	.1 for Short trades . However, do not other indicators	, indicating a weaker discard it outright; it s.	relationship with the may still provide valu	target variable. 'ATR' ne in combination with

The feature 'ADX' has a low Mutual Information score of 0 might not be very influential in determining Short outcome	0.06 for Short trades, indica es. However, do not discard other indicators.	ting a weaker relationship with d it outright; it may still provid	n the target variable. 'ADX' e value in combination with

The feature 'CCI' has a low Permutation Importance s 'CCI' might not be very influential in determining Short	score of 0.38 for Short trades, i t outcomes. However, do not d with other indicators.	indicating a weaker relationship iscard it outright; it may still pro	with the target variable. ovide value in combination

The feature 'ADX' has a low Permutation Importanc ADX' might not be very influential in determining Sh	e score of 0.13 for Short trades, ir ort outcomes. However, do not dis with other indicators.	ndicating a weaker relationship w scard it outright; it may still provi	ith the target variable. de value in combination

The feature 'ATR' has a low Permutation Importance 'ATR' might not be very influential in determining Shor	score of 0.09 for Short trade rt outcomes. However, do no with other indicators.	es, indicating a weaker relation of discard it outright; it may s	onship with the target variable. still provide value in combination