Appendix B

Part 1: Selected Features

3M: ['1Mt-1', '3Mt-1', '6Mt-1', '2Yt-1', 'EMVMONETARYPOLt-1', 'DFFt-1', 'EA19CLIt-1', 'CHNCLIt-1', 'DPRIMEt-1', 'USJPBDSP1Yt-1', 'US2Y-20Yt-1', 'US7Y-10Yt-1', '1Y_SMA5t-1', '2Y_SMA5t-1', '3Y_SMA24_14t-1']

2Y: ['1Yt-1', '2Yt-1', '3Yt-1', 'BOGZ1FL614090610Qt-1', 'EMVMONETARYPOLt-1', 'WALCLt-1', 'DFFt-1', 'JGB3Yt-1', 'JGB4Yt-1', 'MEHOINUSA672Nt-1', 'USJPBDSP2Yt-1', 'US3Y-10Yt-1', '2Y_SMA5t-1', '3Y_SMA5t-1', '2Y_SMA10t-1']

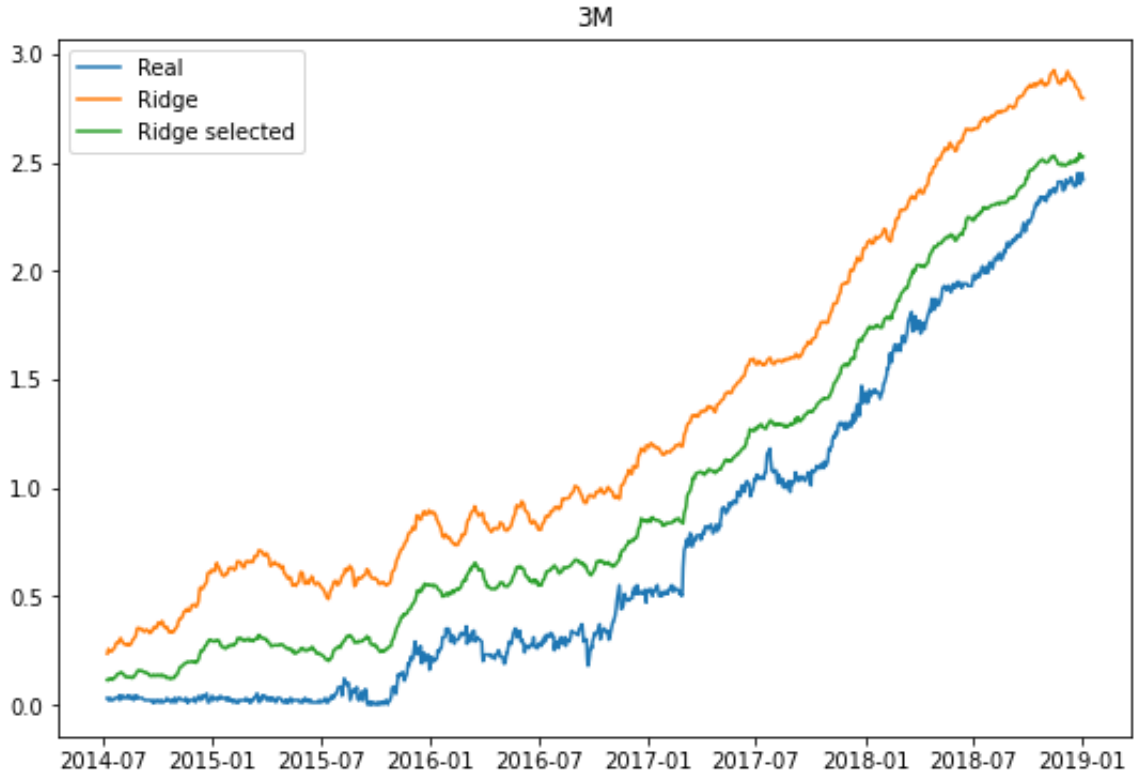
5Y: ['3Yt-1', '5Yt-1', '7Yt-1', 'EMVMONETARYPOLt-1', 'MICHt-1', 'GC=Ft-1', 'JPY=Xt-1', 'ZB=Ft-1', 'JGB7Yt-1', 'BOE5Yt-1', 'BRAdeficitt-1', 'USJPBDSP5Yt-1', 'USEUBDSP7Yt-1', 'USECB5Y-ECB7Yt-1', '5Y_SMA5t-1', '7Y_SMA10t-1']

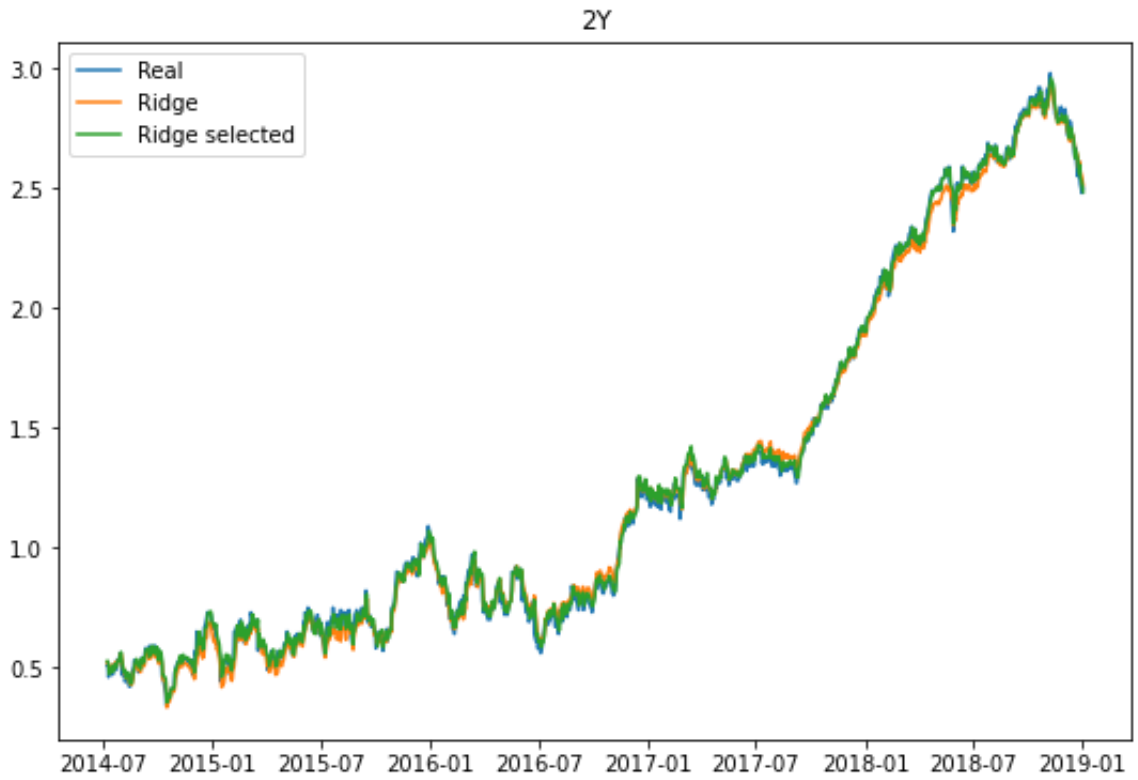
10Y: ['7Yt-1', '10Yt-1', 'EA19CLIt-1', 'DSWP30t-1', 'USD1MTD156Nt-1', 'JPY=Xt-1', 'ZB=Ft-1', 'BOE10Yt-1', 'USJPBDSP10Yt-1', 'USEUBDSP10Yt-1', '20Y_SMA5t-1', '10Y_SMA10t-1', '20Y_SMA10t-1']

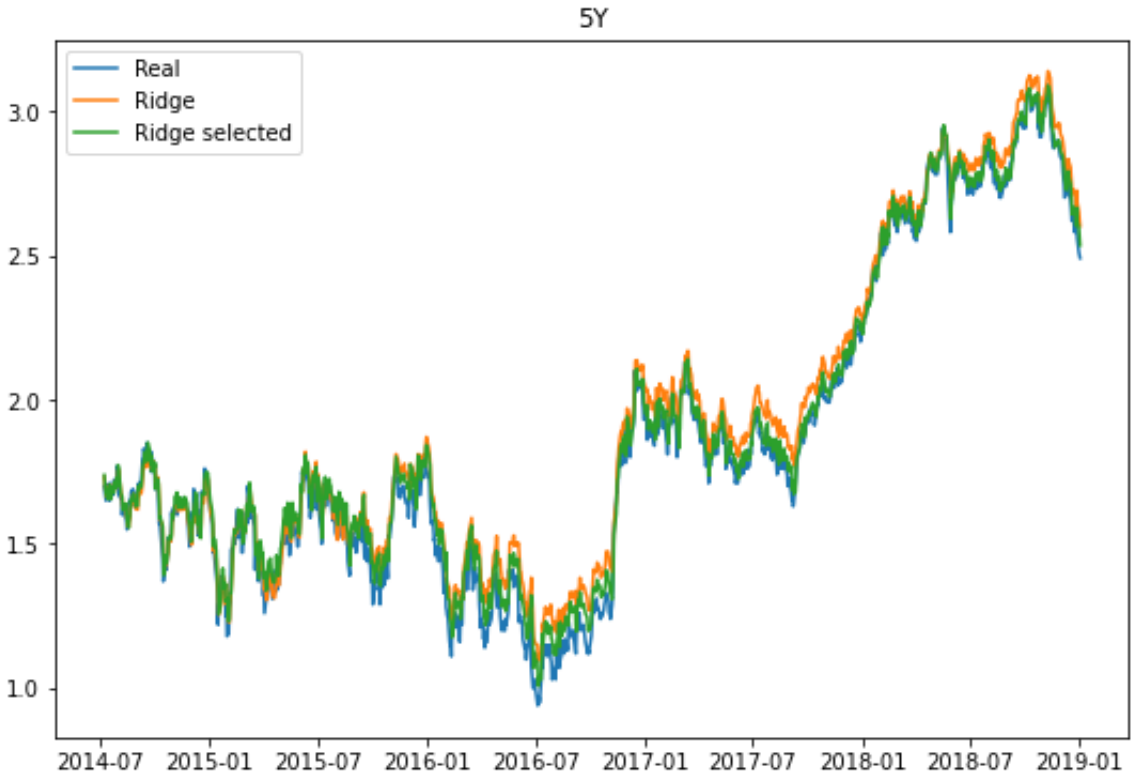
30Y: ['20Yt-1', '30Yt-1', 'WALCLt-1', 'DSWP30t-1', 'CNY=Xt-1', 'PMIt-1', 'BRAdeficitt-1', '30Y_SMA5t-1', '30Y_SMA10t-1']}

Part 2: Plots

Ridge Regression:



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Real
Ridge
Ridge selected
3.0
2.5
2.0
1.5
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2014-07
2015-01
2015-07
2016-01
2016-07
2017-01
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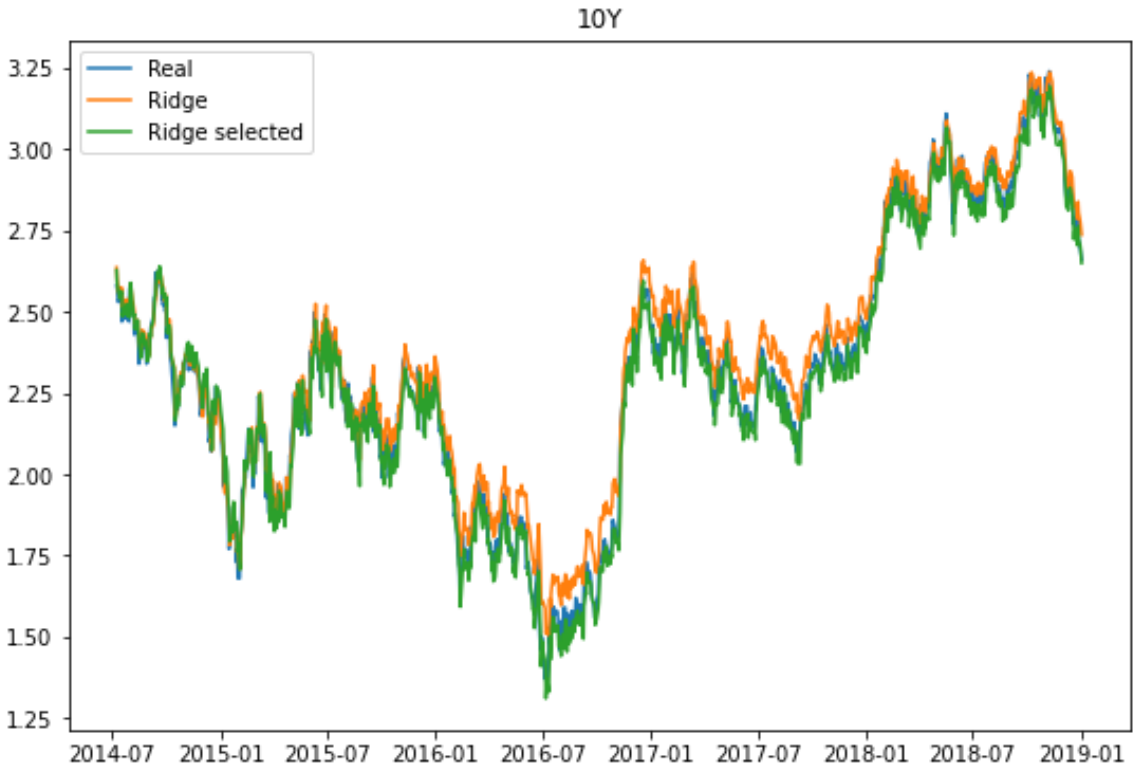
2018-01
2018-07
2019-01


10Y
Real
Ridge
Ridge selected
3.25
3.00
2.75
2.50
2.25
2.00
1.75
1.50
1.25
2014-07
2015-01
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2017-01
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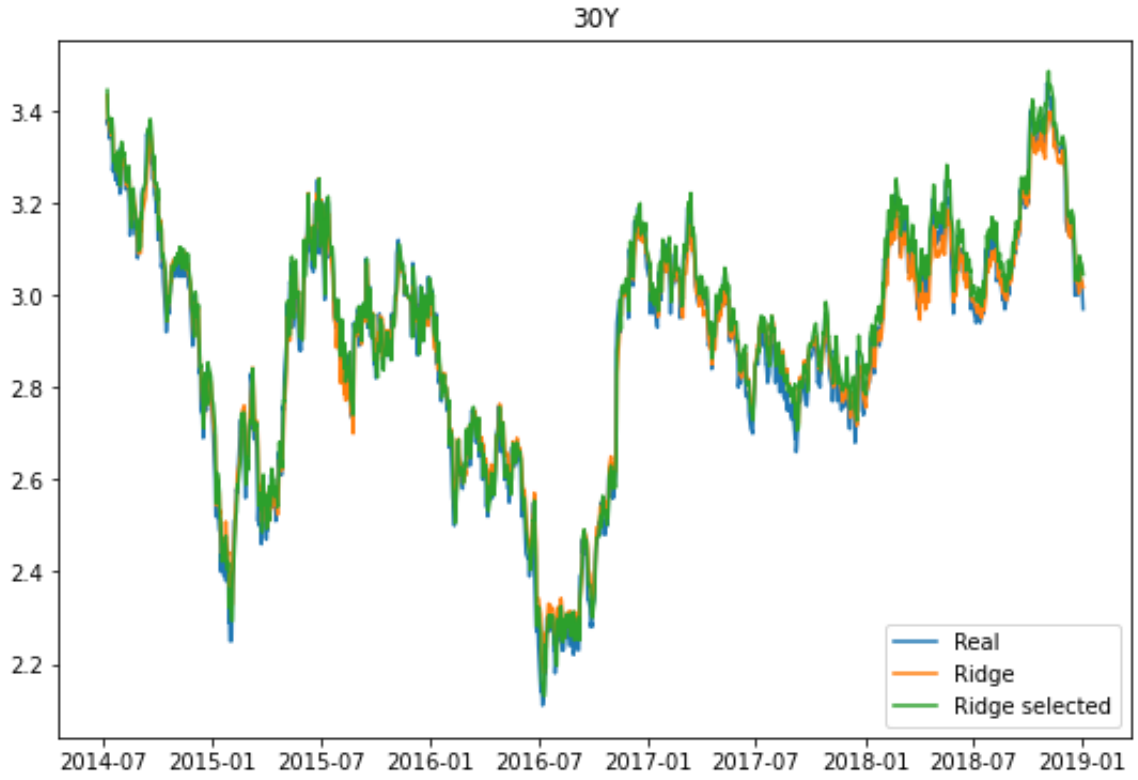
2019-01


30Y
3.4
3.2
3.0
2.8
2.6
2.4
2.2
2014-07
2015-01
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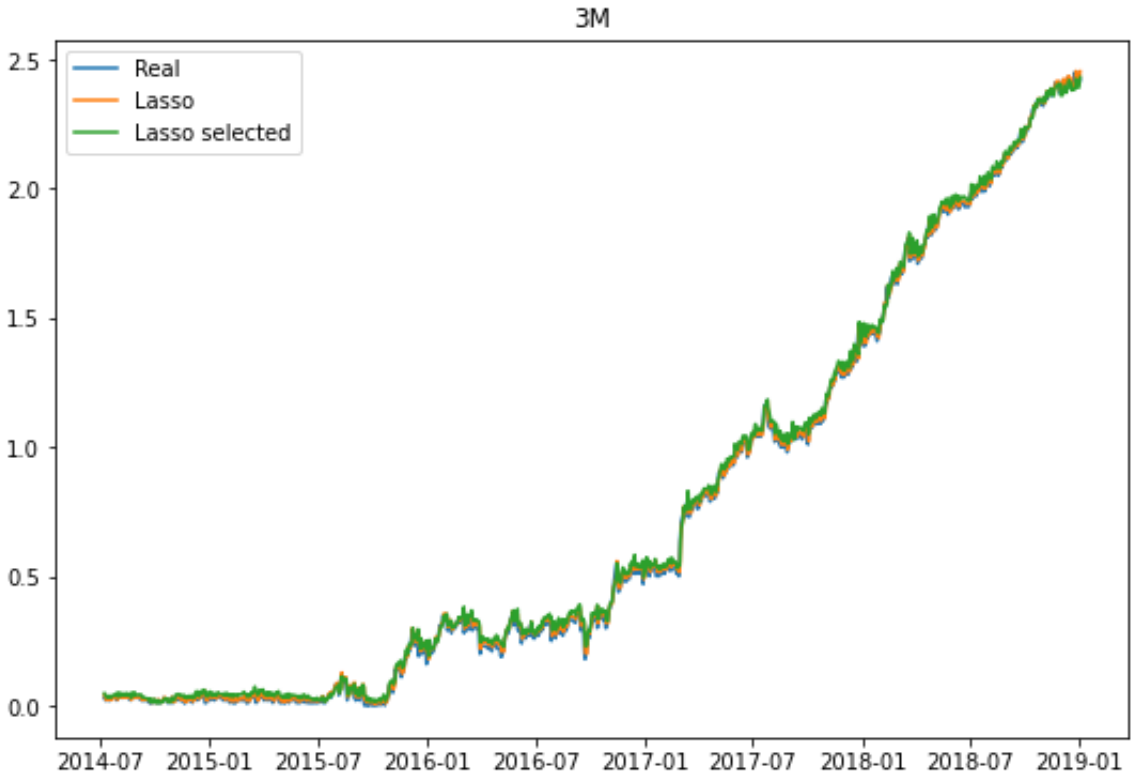
2016-07
2017-01
2017-07
2018-01
2018-07
2019-01
Real
Ridge
Ridge selected

LASSO: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Real
Lasso
Lasso selected
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2.0
1.5
1.0
0.5
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2015-01
2015-07
2016-01
2016-07
2017-01
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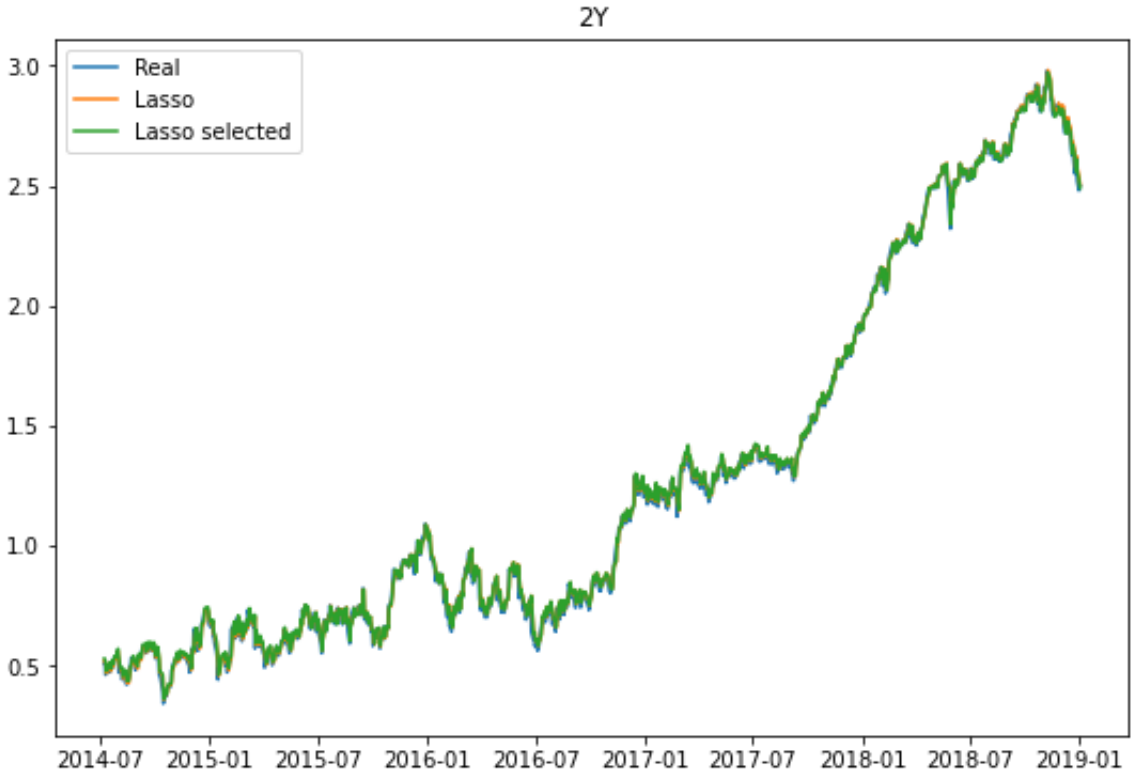
2018-01
2018-07
2019-01


2Y
Real
Lasso
Lasso selected
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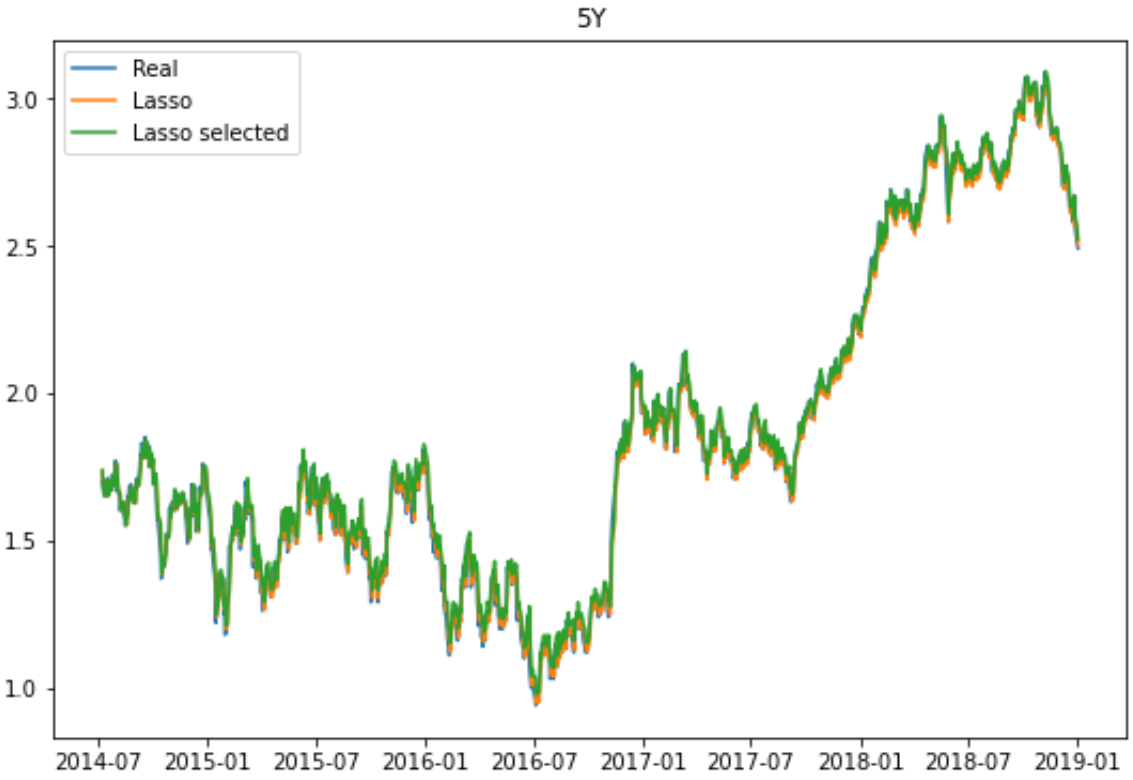
2.5
2.0
1.5
1.0
0.5
2014-07
2015-01
2015-07
2016-01
2016-07
2017-01
2017-07
2018-01
2018-07
2019-01


5Y
Real
Lasso
Lasso selected
3.0
2.5
2.0
1.5
1.0
2014-07
2015-01
2015-07
2016-01
2016-07
2017-01
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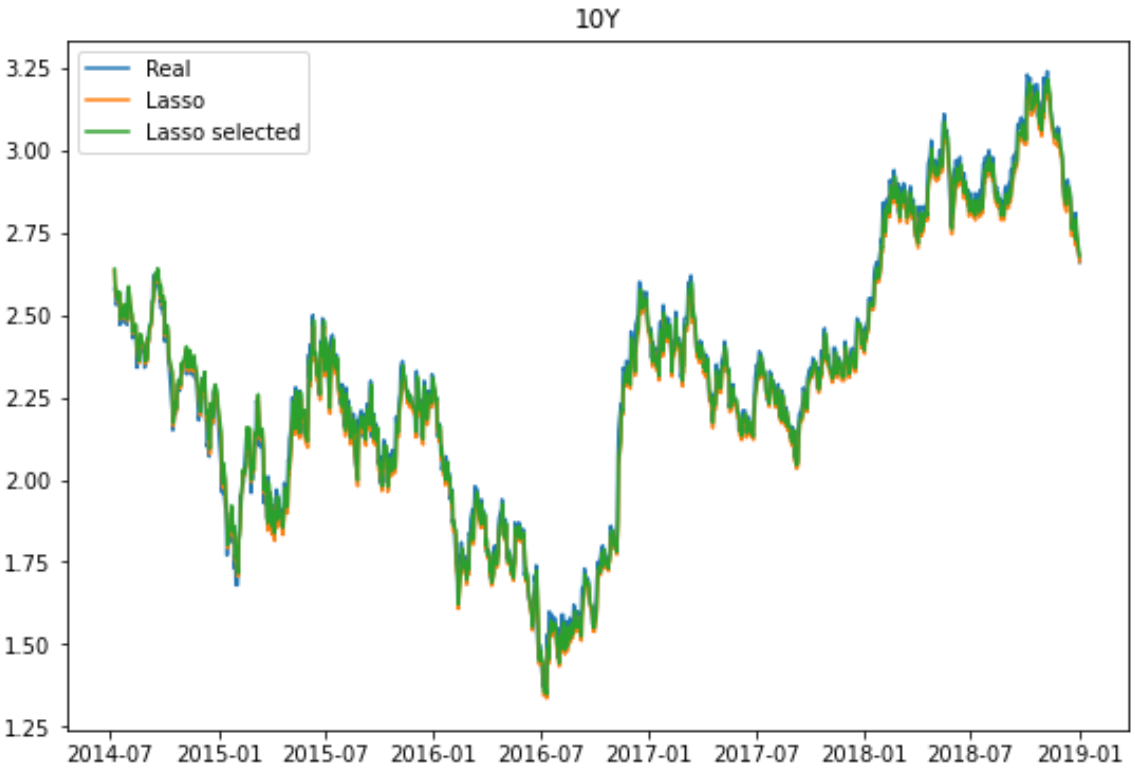
10Y
Real
Lasso
Lasso selected
3.25
3.00
2.75
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2.25
2.00
1.75
1.50
1.25
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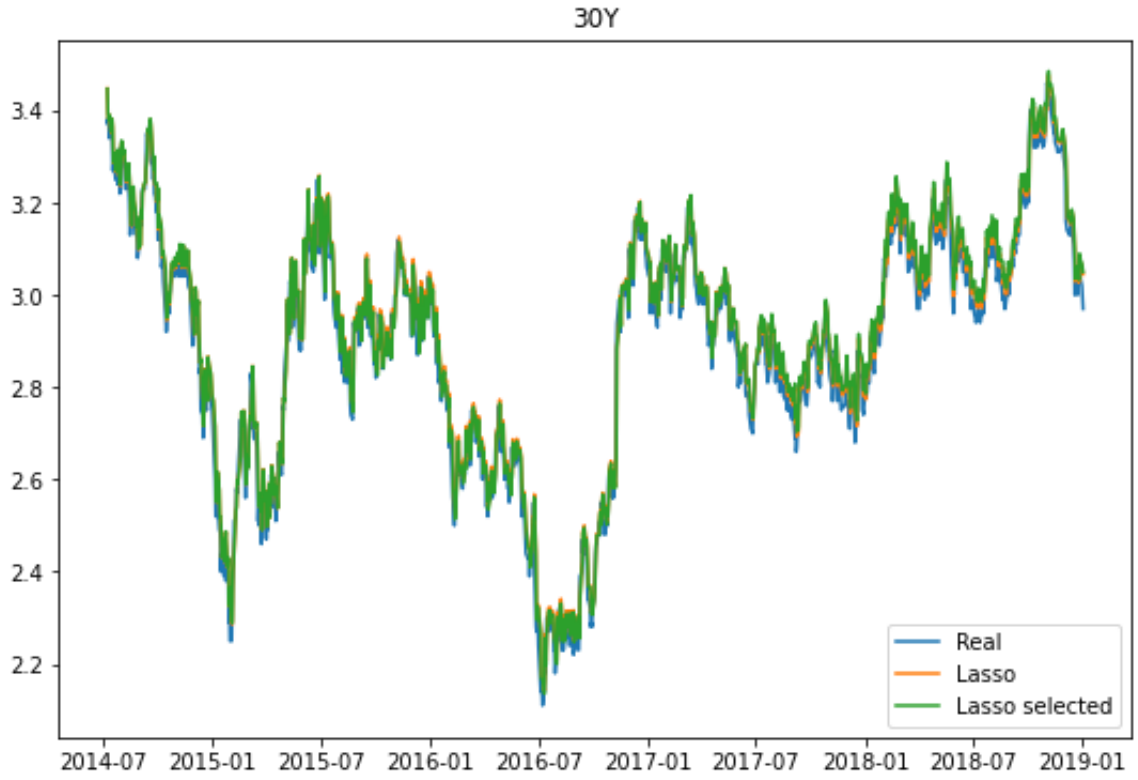
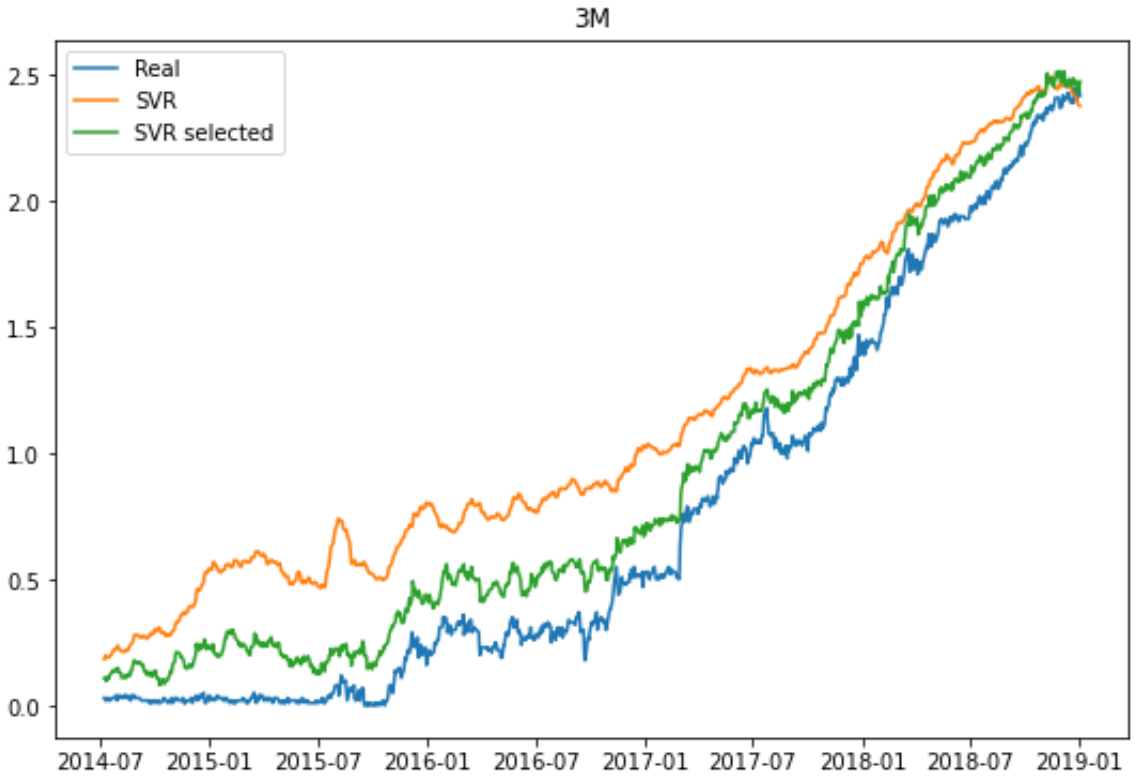

30Y
3.4
3.2
3.0
2.8
2.6
2.4
2.2
2014-07
2015-01
2015-07
2016-01
2016-07
2017-01
2017-07
2018-01
2018-07
2019-01
Real
Lasso
Lasso selected

SVR:


3M
Real
SVR
SVR selected
2.5
2.0
1.5
1.0
0.5
0.0
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2015-01
2015-07
2016-01
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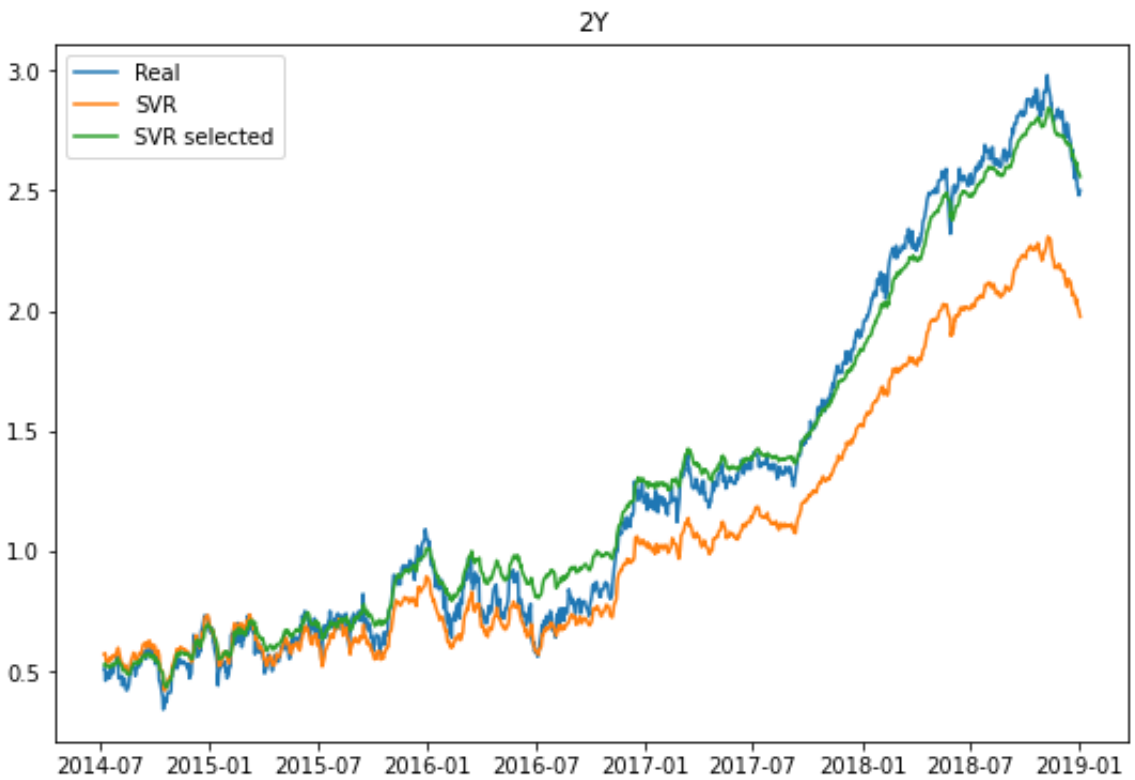
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Real
SVR
SVR selected
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1.5
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0.5
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2015-07
2016-01
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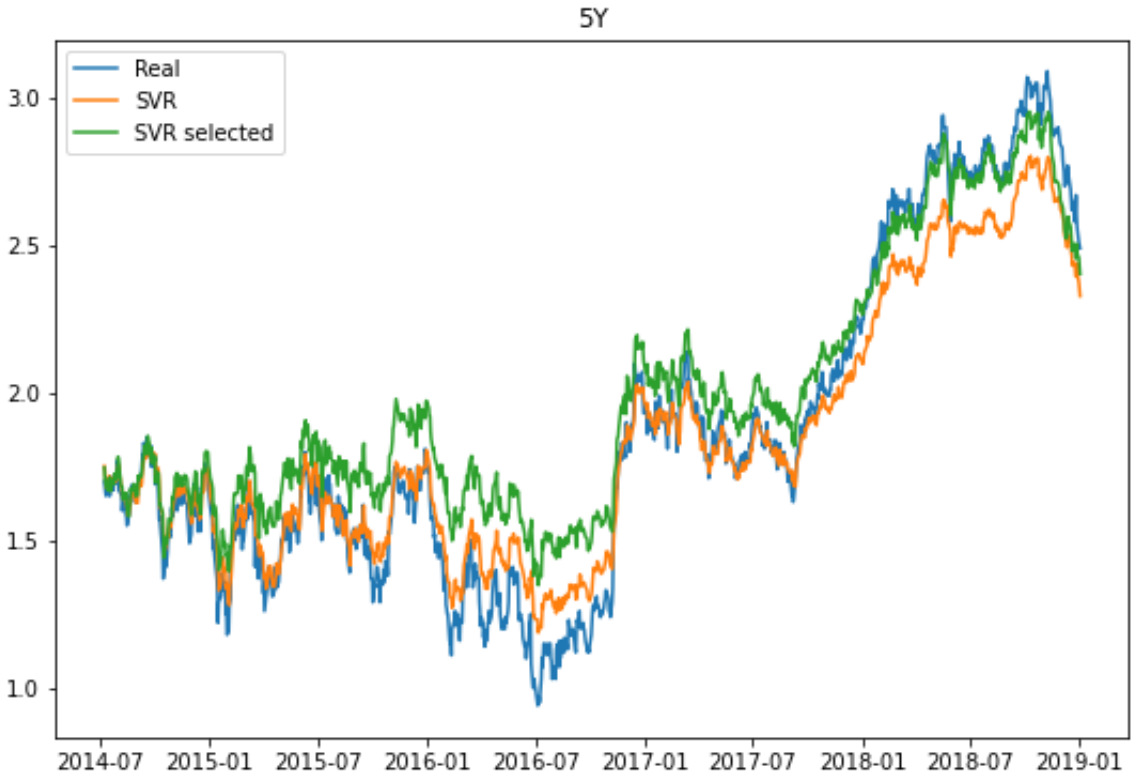
2018-07
2019-01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Real
SVR
SVR selected
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2.0
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2017-01
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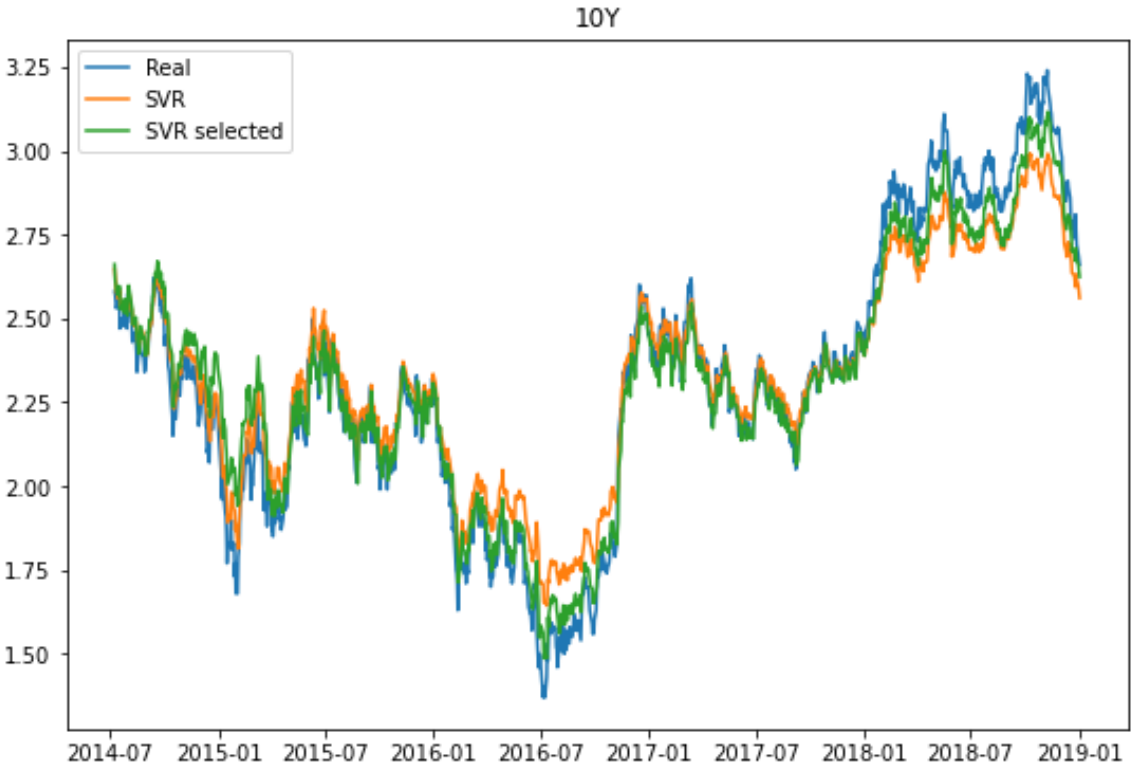
2018-07
2019-01


10Y
Real
SVR
SVR selected
3.25
3.00
2.75
2.50
2.25
2.00
1.75
1.50
2014-07
2015-01
2015-07
2016-01
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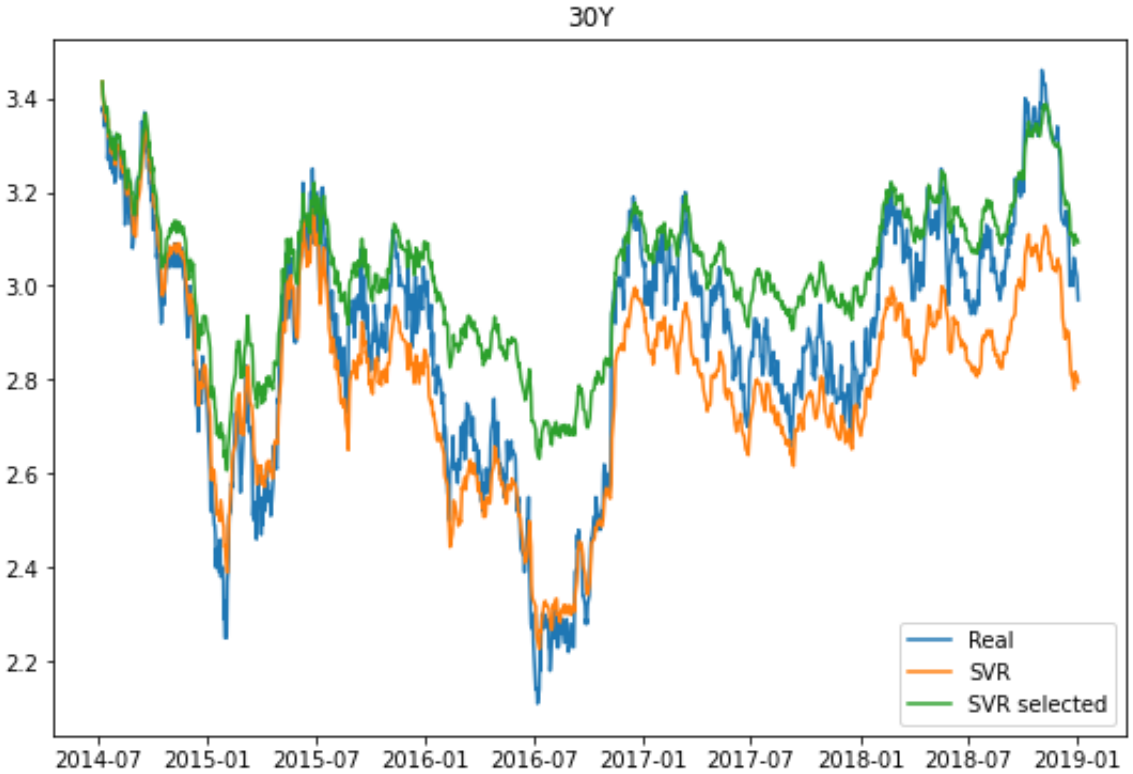
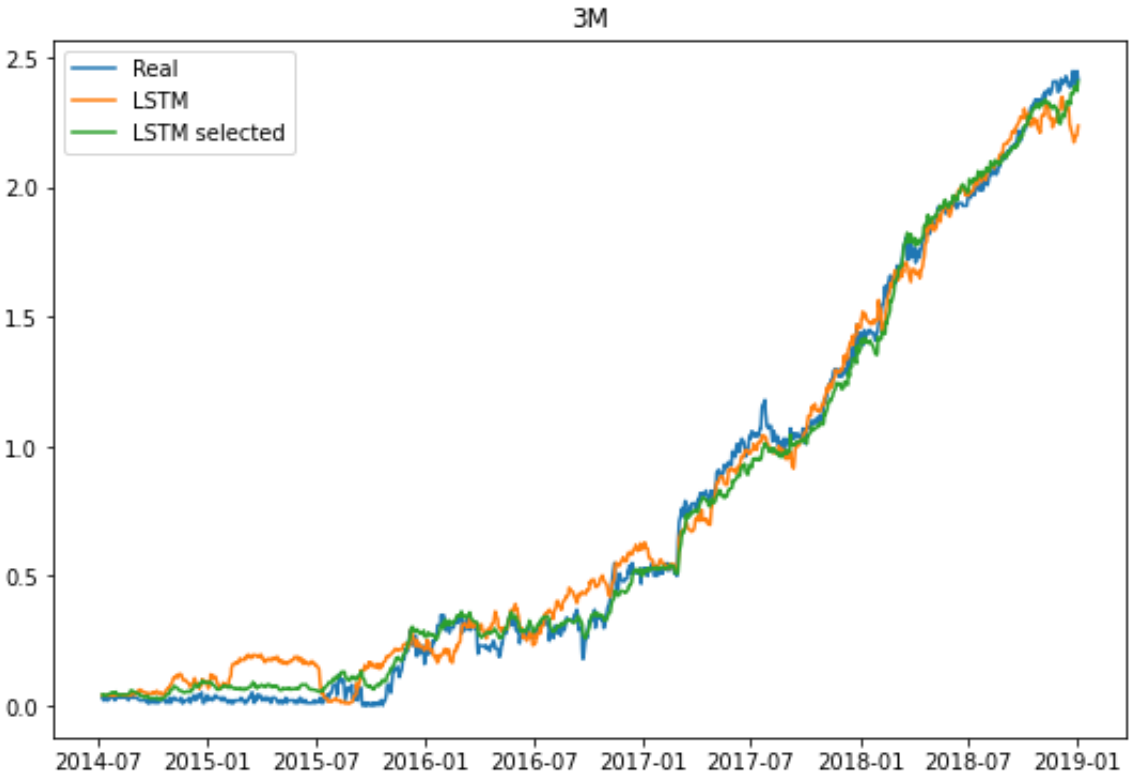
2018-07
2019-01


30Y
3.4
3.2
3.0
2.8
2.6
2.4
2.2
Real
SVR
SVR selected
2014-07
2015-01
2015-07
2016-01
2016-07
2017-01
2017-07
2018-01
2018-07
2019-01

LSTM: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Real
LSTM
LSTM selected
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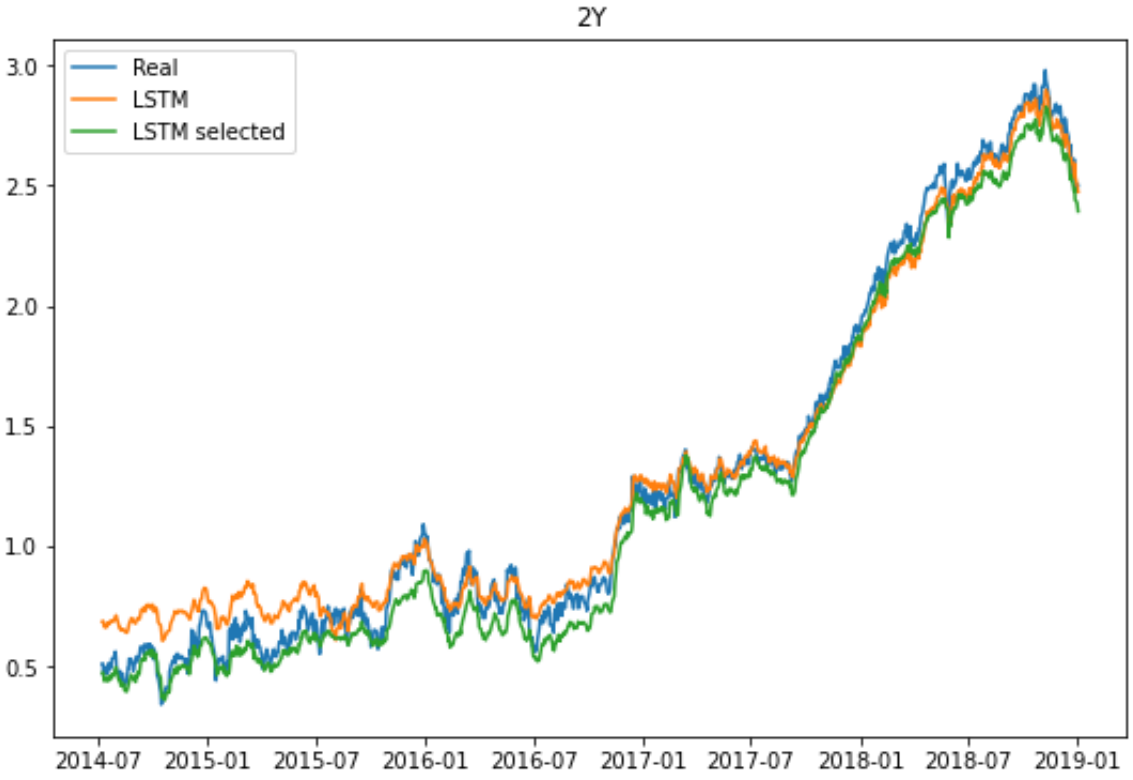
2Y
Real
LSTM
LSTM selected
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2.5
2.0
1.5
1.0
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2015-01
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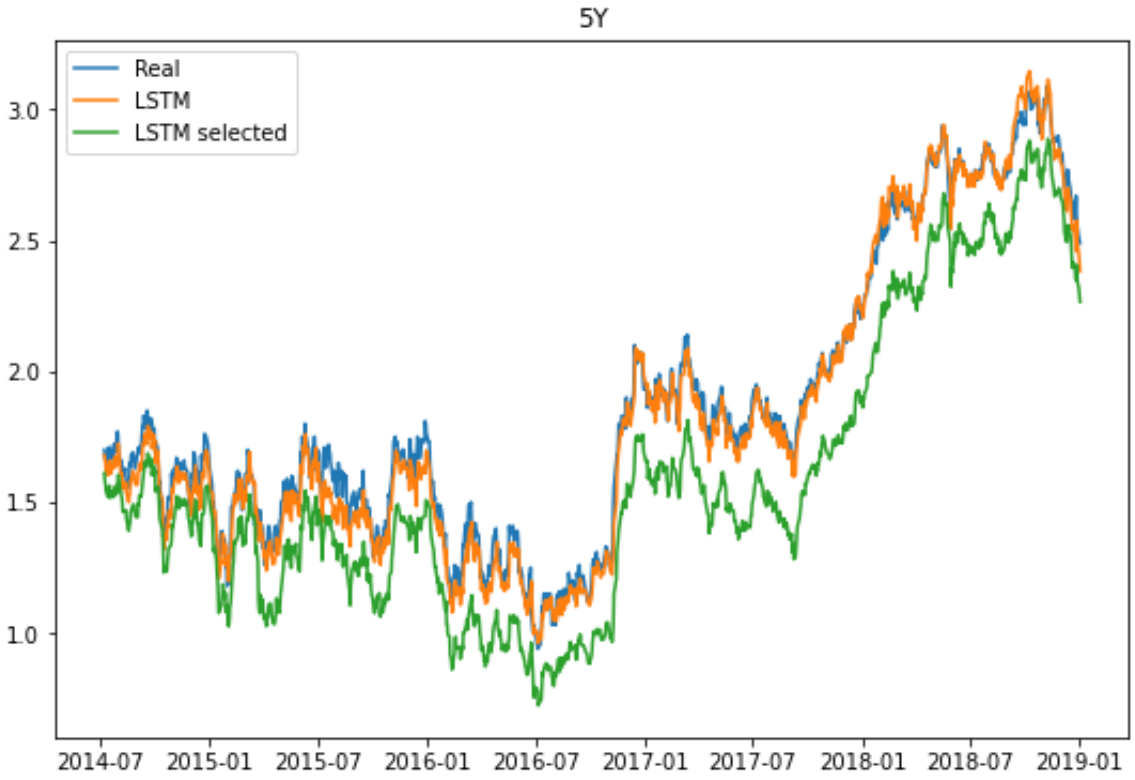
5Y
Real
LSTM
LSTM selected
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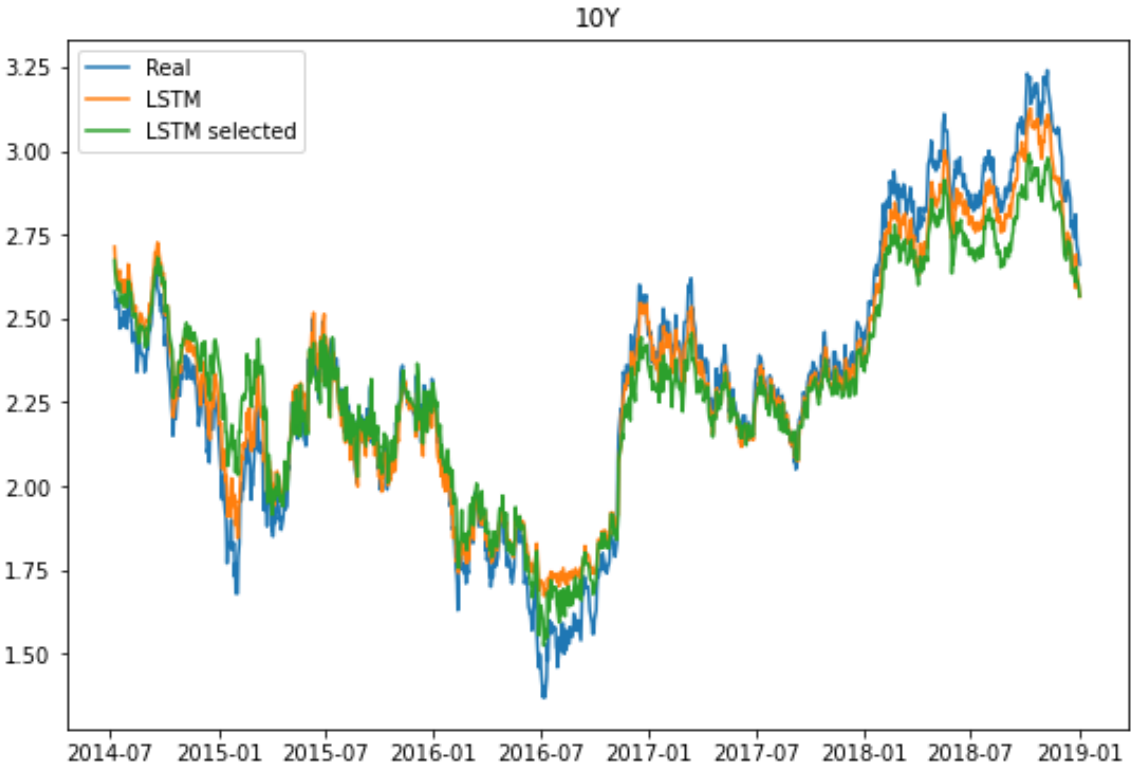
10Y
Real
LSTM
LSTM selected
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2.25
2.00
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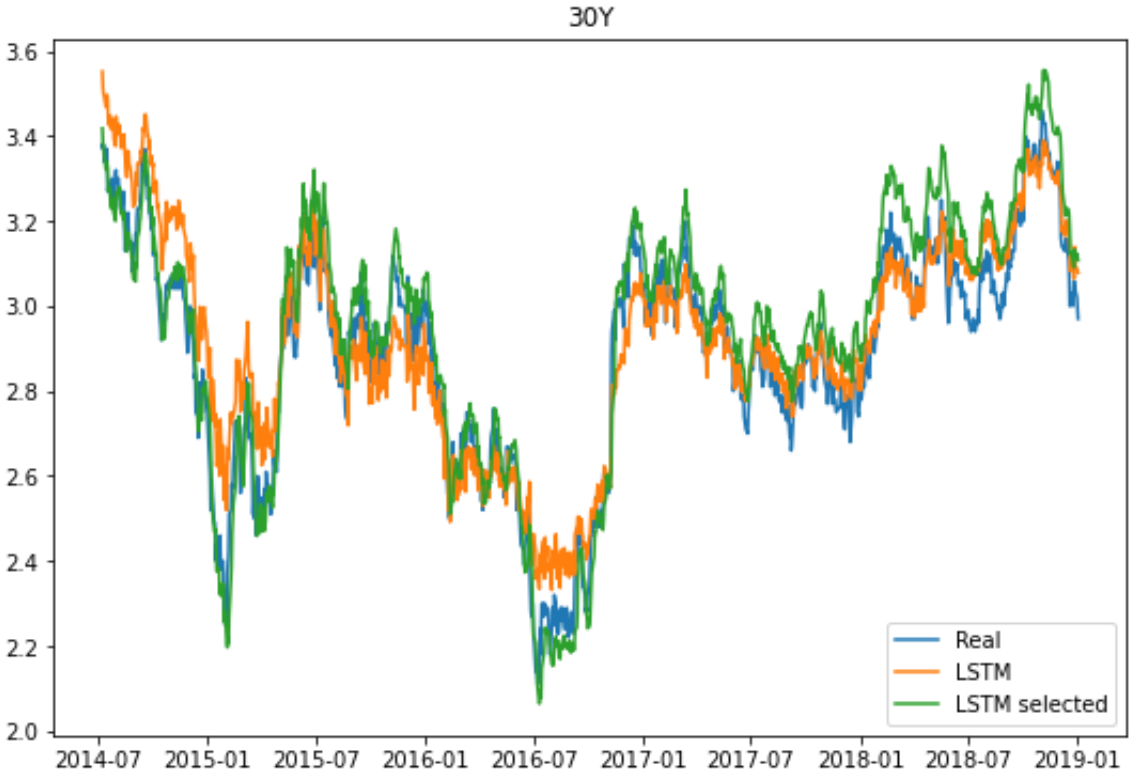
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2.8
2.6
2.4
2.2
2.0
Real
LSTM
LSTM selected
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2015-01
2015-07
2016-01
2016-07
2017-01
2017-07
2018-01
2018-07
2019-01