estimize_signal_strategy

August 24, 2018

1 Estimize Signal Strategy

The Estimize Signal is a cross sectional score which captures several predictive factors based on Estimize's proprietary database of crowdsourced earnings estimates. These factors include preearnings measures such as the difference between Estimize and Wall Street earnings forecasts, as well as post-earnings factors such as recent earnings surprises as benchmarked against Estimize forecasts. In constructing the Estimize Signal, we leveraged the research from our white paper, "Generating Abnormal Returns Using Crowdsourced Earnings Forecasts from Estimize," first written in 2014. The signal construction process included rigorous in-and out-of-sample testing, and represents a fairly parsimonious use of the Estimize data set.

1.1 Backtest Results

In the following part of the notebook, we have codified an example of how the Estimize Signal could be traded in a single factor model, and show yearly as well as multiyear performance. The data used are pricing data (to calculate daily returns) provided by Zipline, and the Estimize Signal data. To run this notebook you will need to download the Estimize Signal time series CSV and place it into your the data directory.

There are seven parameters that can be changed to control how the algo operates. With the default parameter settings, we have a universe consisting of U.S. equities with market caps >= \$100mm, average daily trading volumes of > \$1mm, and prices (split unadjusted) of > \$4. On each trade we create a long portfolio which is equally weighted among all stocks in the top 10% of stocks in this universe according to the Signal. Similarly the short portfolio is equally weighted among the stocks in the bottom 10%. Our dollar neutral return is the difference between the long portfolio's return and the short portfolio's return. In addition we are using a 2-to-1 leverage ratio.

1.2 Caveates

These notebooks depend on the Zipline pricing data. As of April 2018, the Zipline team has been unable to update the public pricing data past Q1 2018 due to an issue with aqcuiring 3rd-party data. We will update the notebooks when this situation changes.

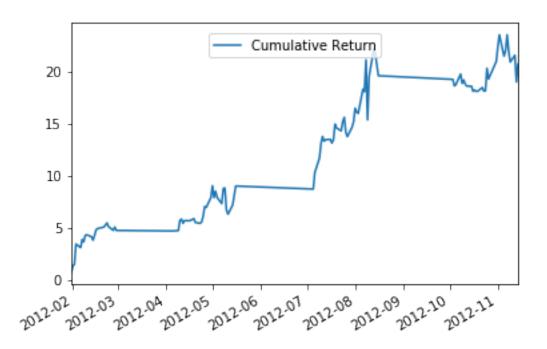
```
585083

573805

2018-08-14 16:34:56,256 [INFO] estimize.services.impl.estimize_signal_service_default_impl: ge

2018-08-14 16:34:57,043 [INFO] estimize.services.impl.estimize_signal_service_default_impl: ge
```

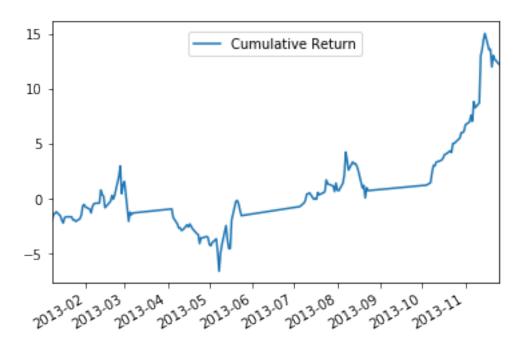
Return (Annualized) Sharpe Ratio Volatility
0 0.443509 2.829882 0.156724



685505 679256

2018-08-14 16:35:14,324 [INFO] estimize.services.impl.estimize_signal_service_default_impl: ge 2018-08-14 16:35:14,983 [INFO] estimize.services.impl.estimize_signal_service_default_impl: ge

Return (Annualized) Sharpe Ratio Volatility
0 0.201023 1.51247 0.132911



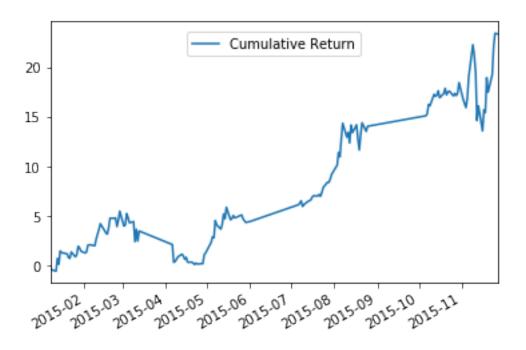
2018-08-14 16:35:34,530 [INFO] estimize.services.impl.estimize_signal_service_default_impl: ge 2018-08-14 16:35:35,189 [INFO] estimize.services.impl.estimize_signal_service_default_impl: ge

Return (Annualized) Sharpe Ratio Volatility
0 0.190852 1.62459 0.117477



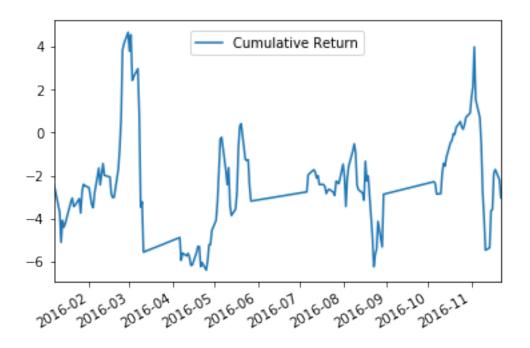
2018-08-14 16:35:56,869 [INFO] estimize.services.impl.estimize_signal_service_default_impl: ge 2018-08-14 16:35:57,622 [INFO] estimize.services.impl.estimize_signal_service_default_impl: ge

Return (Annualized) Sharpe Ratio Volatility
0 0.341265 2.424804 0.140739



2018-08-14 16:36:22,370 [INFO] estimize.services.impl.estimize_signal_service_default_impl: ge 2018-08-14 16:36:23,130 [INFO] estimize.services.impl.estimize_signal_service_default_impl: ge

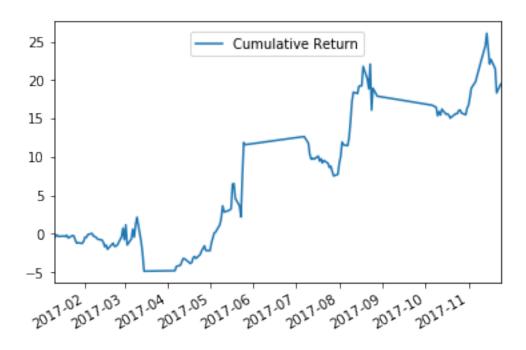
Return (Annualized) Sharpe Ratio Volatility
0 -0.035907 -0.222949 0.161054



2018-08-14 16:36:45,000 [INFO] estimize.services.impl.estimize_signal_service_default_impl: ge 2018-08-14 16:36:45,648 [INFO] estimize.services.impl.estimize_signal_service_default_impl: ge

Year Cumulative Return Avg Daily Return Num Trading Days \ 0 2017 0.19509 0.001285 147.0

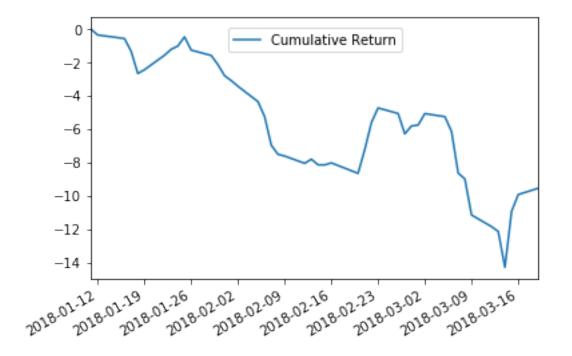
Return (Annualized) Sharpe Ratio Volatility
0 0.323862 1.698495 0.190676

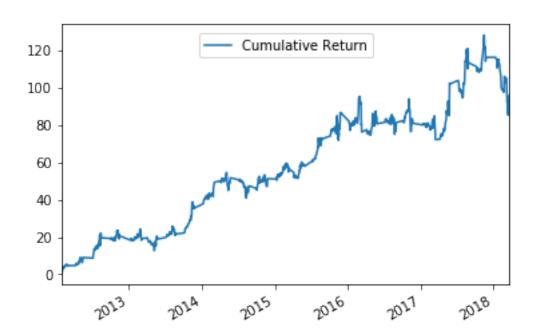


2018-08-14 16:37:03,774 [INFO] estimize.services.impl.estimize_signal_service_default_impl: ge 2018-08-14 16:37:04,403 [INFO] estimize.services.impl.estimize_signal_service_default_impl: ge

Year Cumulative Return Avg Daily Return Num Trading Days \ 0 2018 -0.09543 -0.002117 46.0

Return (Annualized) Sharpe Ratio Volatility
0 -0.533474 -3.037563 0.175626





Cumulative Return Avg Daily Return Num Trading Days Return (Annualized) '0 0.107098 0.000528 132.0 0.133019

Sharpe Ratio Volatility 0 0.975676 0.153601