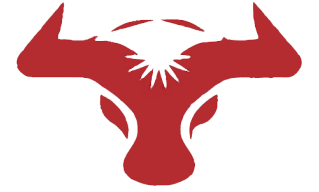


BullTrader

A python framework for quantitative trader

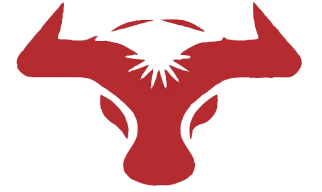
Yang Wang



Motivation

- We want to define data
- We want to use python
- We want to use deep learning system
- We want to visualize the performance better

We need to develop a toolkit to meet the customized needs.



Architecture

BullTrader

Fetcher

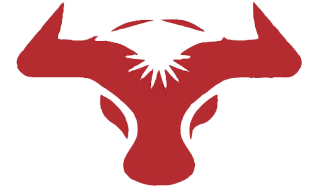
Model

Feed

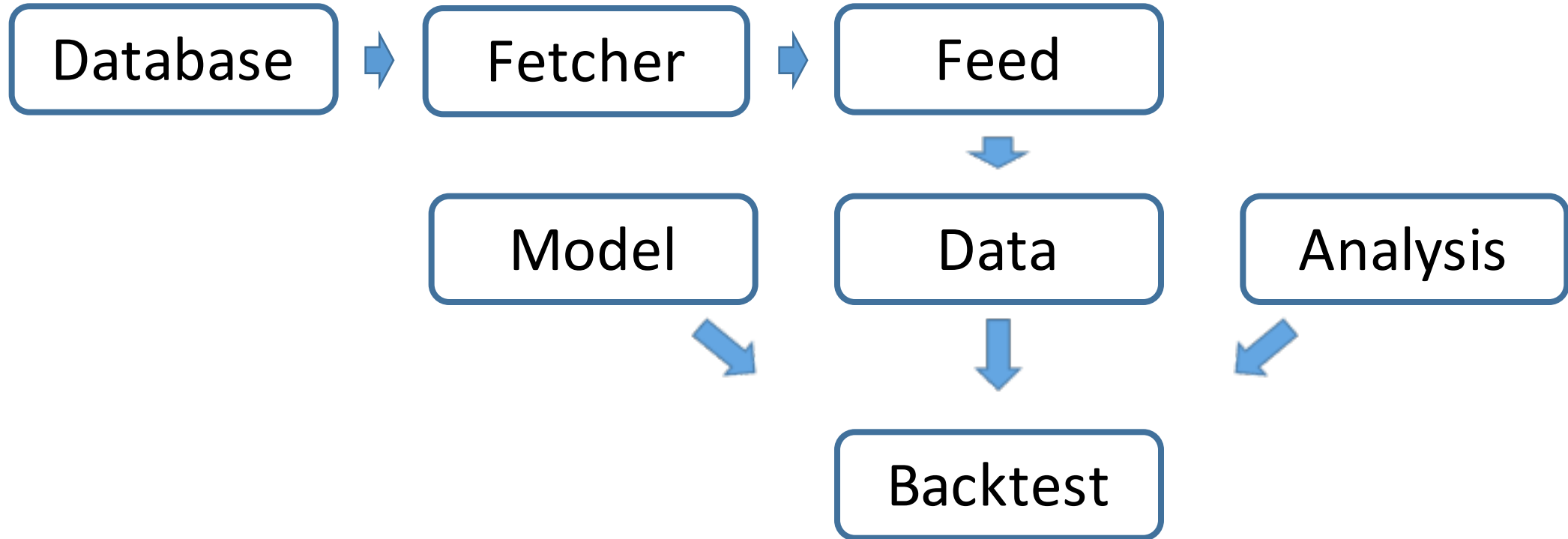
Analysis

Backtest

Utils



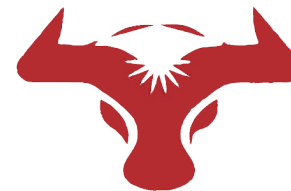
Mechanism





Usage

```
# git clone gitlab@192.168.0.15:wy/bulltrader.git  
# cd bulltrader  
# sudo pip install .  
# python main.py --conf buy_and_hold.conf
```



Conf

```
[db]

host = str: 192.168.0.10
port = int: 3306
user = str: usemysql
passwd = str: 123456
sec_code_db = str: stock_set
dprice_db = str: 4_28_ASHAREODPRICES
factor_db = str: 4_33_AShareEODDerivativeIndicator
index_db = str: 4_98_AINDEXEODPRICES
index_name = list: 000001_SH

indus_set = list: Capital_Goods, Materials, Compute
                Consumer_Durables_Apparel, Medical_Bio
                Food__Beverage_Tobacco, Computer_Appli
                Automobiles_Components, Retailing

sec_factor = list: TRADE_DT, S_DQ_HIGH, S_DQ_OPEN,
                 S_DQ_ADJHIGH, S_DQ_ADJOPEN, S_DQ_ADJCLOSE
```

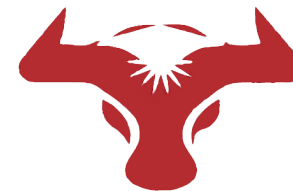
```
[feed]

tra_sta_date = str: 2005-1-1
tra_end_date = str: 2015-1-1
tes_end_date = str: 2017-1-1

[model]
model = str: buy_and_hold
ws = int:64
num_test = int:10

[experiment]

load_model = bool: True
delete_old_model = bool: False
delete_old_log = bool: True
pardir = str: /work0/cs1t/exps/viewexp/rlexp/
figparDir = str: /work0/cs1t/exps/viewimg/
expdir = str: wy_buy_and_hold/
```



Output

```
loading config file: config/buy_and_hold.conf ..  
  
[db]  
  
host = 192.168.0.10  
port = 3306  
user = usemysql
```

```
fetching data .....
```

Capital_Goods	['000009_SZ', '000008_SZ',
Materials	['000012_SZ', '600608_SH',
Computer_Electronic_	['600602_SH', '600601_SH',
Consumer_Durables_Ap	['600602_SH', '600651_SH',
Medical_Biology	['000004_SZ', '600624_SH',

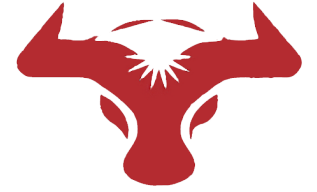
```
start backtesting .....
```

Stock Set : 000009_SZ 600618_SH 600621_SH

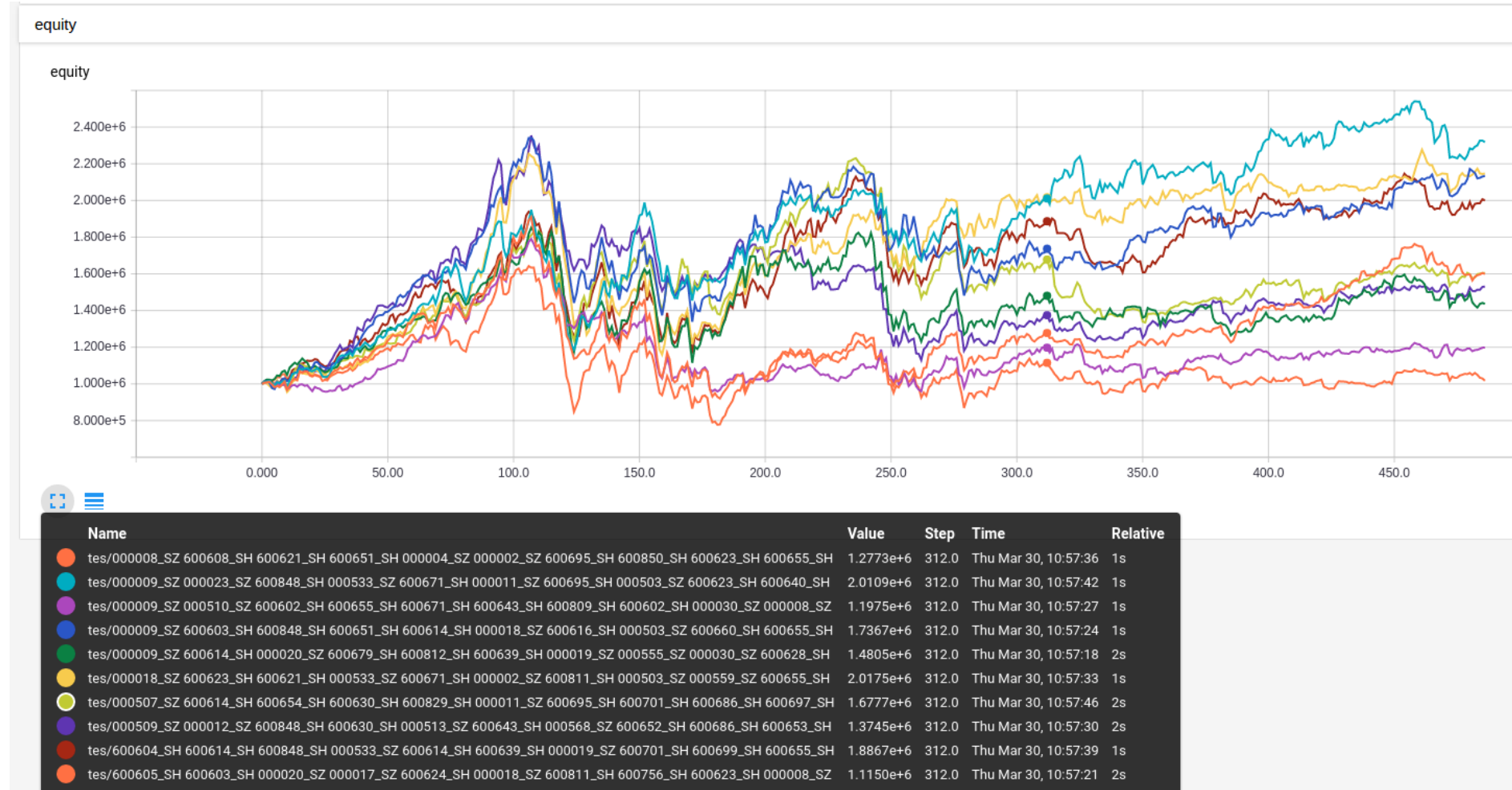
Profit : 79.8051%
Sharpe Ratio: 0.9921
Max Drawdown: 40.5273%
Num Rise Day: 284
Num Fall Day: 202

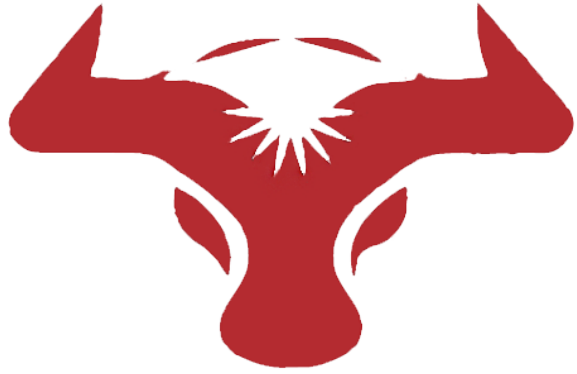
Stock Set : 600605_SH 600614_SH 600624_SH

Profit : 61.9326%
Sharpe Ratio: 0.8024
Max Drawdown: 52.7455%
Num Rise Day: 284
Num Fall Day: 202



Visualization





BullTrader

Help you focus on strategies !