# SMART BETA V.S. MACHINE LEARNING

**PYINVEST** 



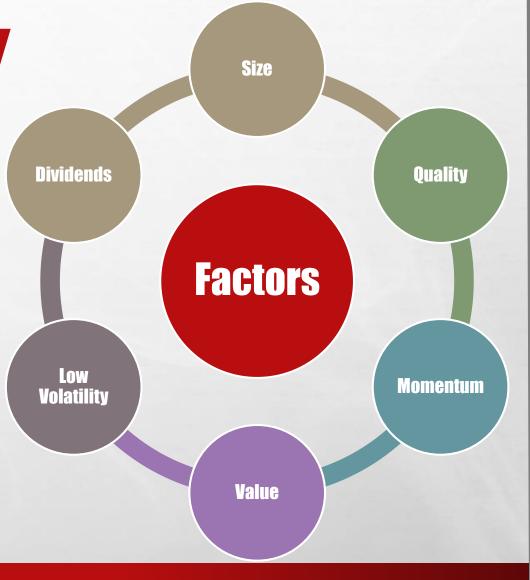
## WHAT IS A PORTFOLIO?



SMART BETA STRATEGY

idea factors Rebalance Rules Rules setting **Portfolio** 

- Stocks
  - weights

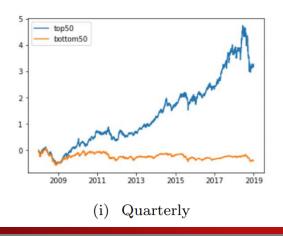


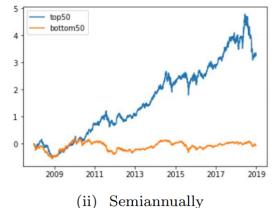
## MOMENTUM STRATEGY IN TAIWAN

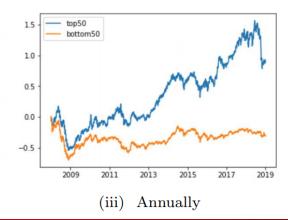
Empirical Results of Risk-adjusted Price Momentum Portfolios

Empiriod results of result adjusted rives in emiliar and an emilia			
top50 portfolio	Quarterly	Semiannually	Annually
Total Return (%)	327.96	335.33	92.75
Annualized Return (%)	14.13	14.31	6.15
Standard Deviation (%)	18.29	17.66	17.26
Sharpe Ratio (%)	77.25	81.04	35.61
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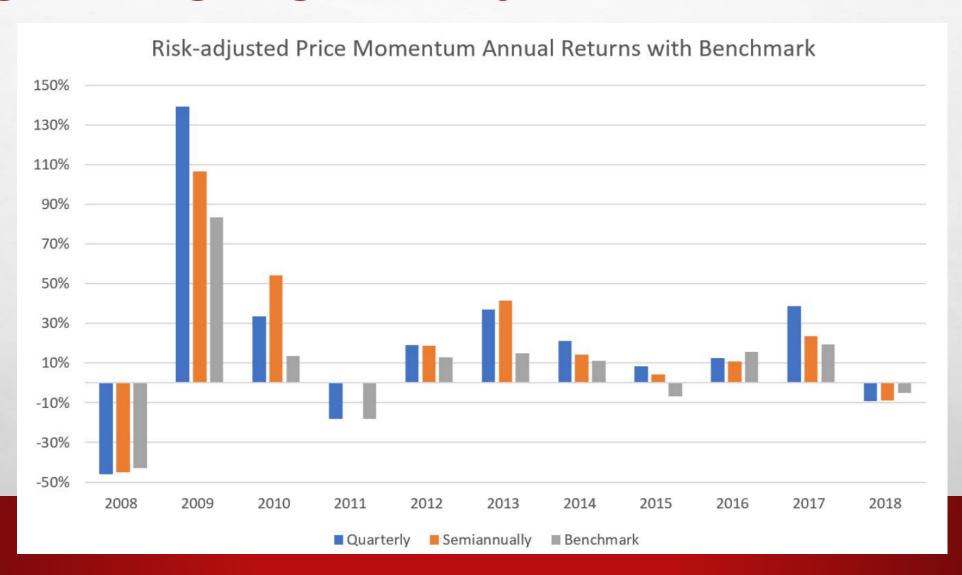
Bottom50 portfolio	Quarterly	Semiannually	Annually
Total Return (%)	-40.12	-6.03	-30.46
Annualized Return (%)	-4.56	-0.56	-3.25
Standard Deviation (%)	16.78	16.62	16.75
Sharpe Ratio (%)	-27.14	-3.39	-19.40







#### MOMENTUM STRATEGY IN TAIWAN



#### THE PERFORMANCE OF DIFFERENT FACTORS



Resource: S&P DJI

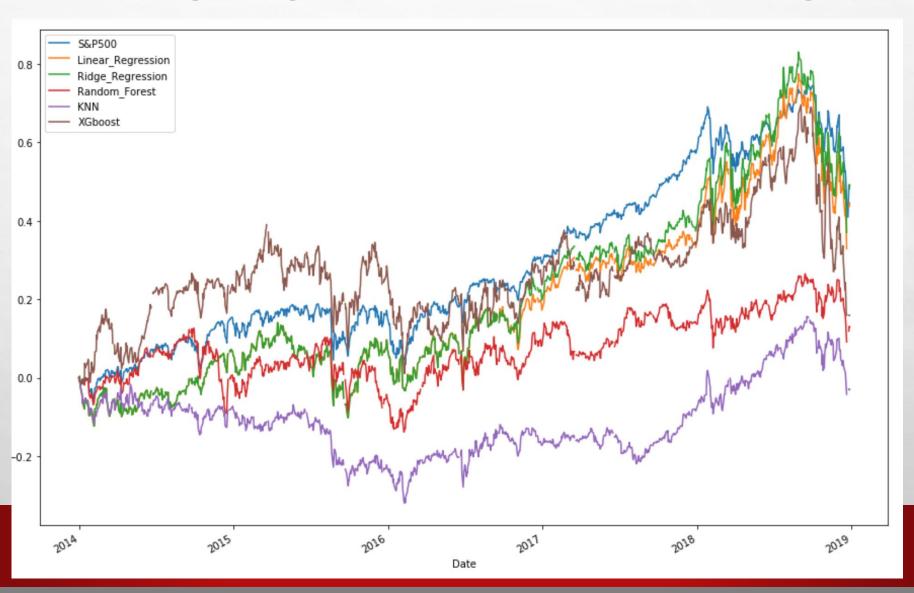
#### MACHINE LEARNING STRATEGY

Features

Modeling

**Portfolio** 

#### SAME FEATURES WITH DIFFERENT MODELS



## CONCLUSION

Smart Beta

Logic

**Rules** 

Machine Learning

**Features** 

**Models** 

## IF YOU WANT TO KNOW MORE...



• BLOG:

HTTPS://PYECONTECH.COM/

• YOUTUBE:

HTTPS://REURL.CC/ZG3GE