# DAG26

eXpertise in blockchain technology
and
Artificial Intelligence solutions

# Deep learning trading signals

July 2019

# Who we are…

- **Stéphane Benichou :**
  PhD in Finance – Sorbonne university. 20 years experience in trading. Hedge fund manager in futures, stocks, options, Fx. Focused in algo trading development since 5 years.

- **Jérome Soussand :**
  PhD in neuroscience. He has been working at INSERM and CNRS. Pattent author. Data scientist specialized in neural networks, AI, Algorithms, deep learning, data science, data visualization, data analyst.

- **Billy Buzeau** :
  Company Development Expert. 16 years of experience. Has created, developed and directed companies (up to 70 million revenue) in electronics, electro-domestic products, 3d-oriented medical printing. Has resold some companies successfully to large groups (as Auchan).

# What we do…

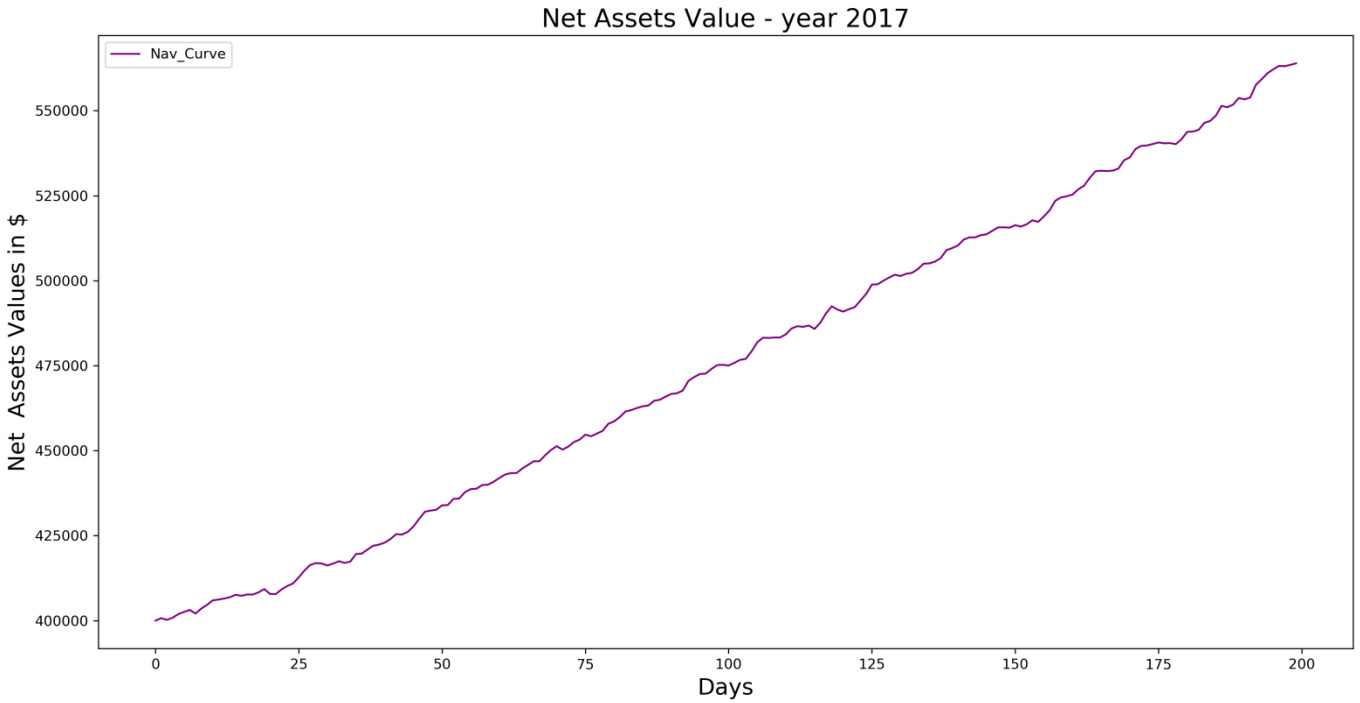
- Over 6 month of research to build an AI algo which delivers trading signals in all tradable markets.
- Our model analyses different data sources and produces exact trading signals for several assets each day.
- The model delivers long and shorts signals.
- Our signals have an horizon for several days.
- We combine our accurate signals with a portfolio diversification strategy to provide good results.

# Performance

- We performed Backtests in 50 stocks of the S&P500 universe in daily time frame
- Max 100% of capital is used (no leverage)
- Backtest period : 2017 to 2019
- We traded long and shorts signals
- We started with a virtual portfolio of 400 000$
- Each trade size is around 2.5% of the portfolio value divided by the Beta of the company.

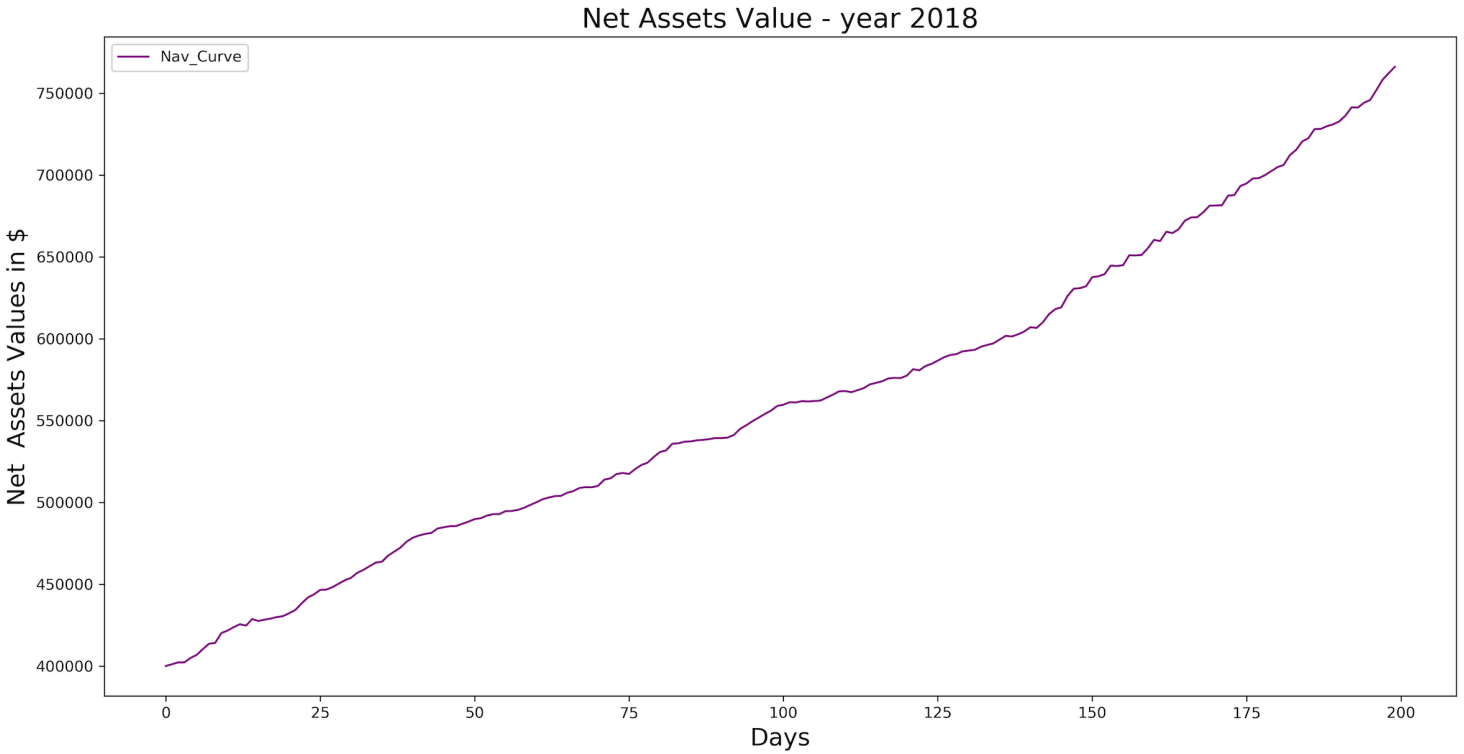
# 2017 results

- Starting capital : 400 000$
- Pnl for the portfolio : 163 900$ (**+41.2%**)
- Max drawdown : -0.42%
- Number of long trades : 694
- Number of short trades : 673
- % of winners : 76%
- Average profit factor : 23.6
- Average trade lenght : 6 days


Net Assets Value - year 2017
Nav_Curve
Net Assets Values in $
550000
525000
500000
475000
450000
425000
400000
0
25
50
75
100
125
150
175
200
Days

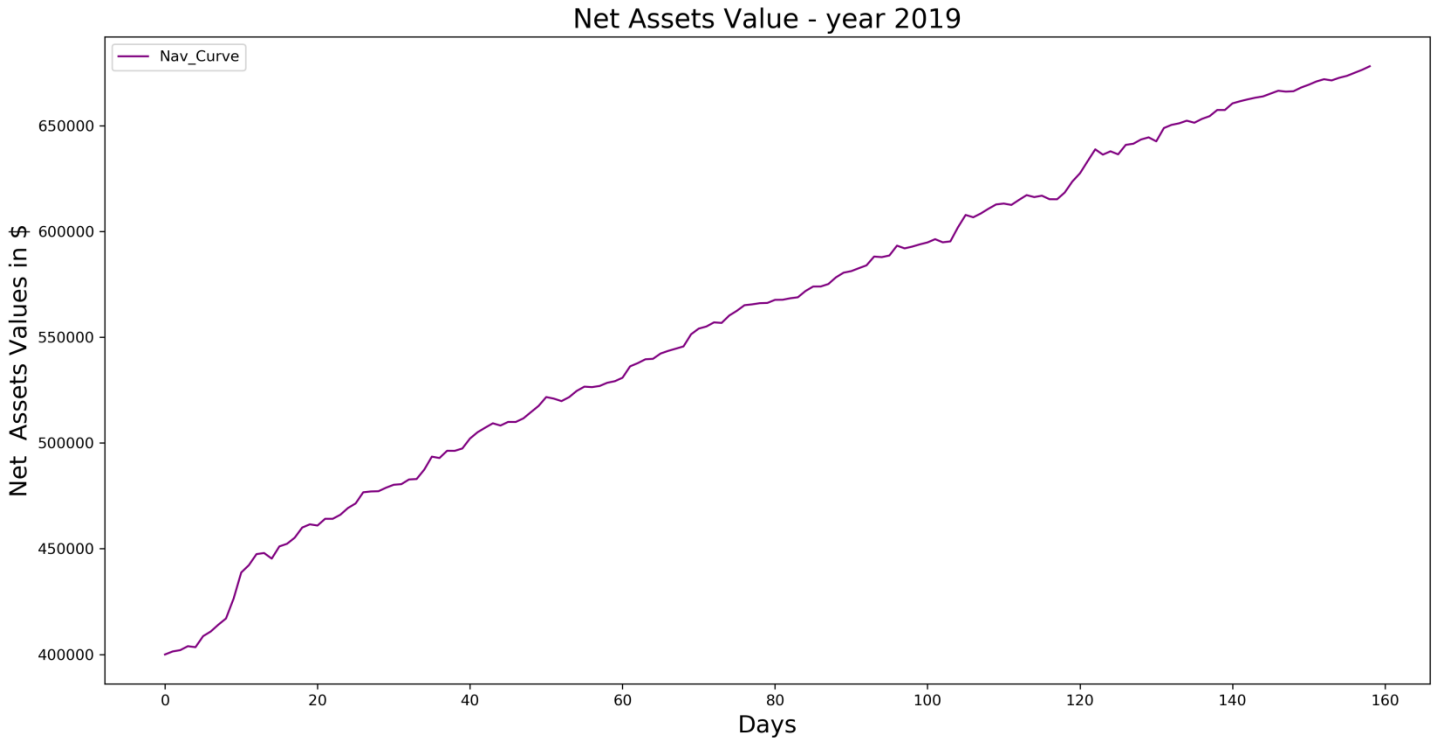
# 2018 results

- Starting capital : 400 000$
- Pnl for the portfolio : 366 000$ (**+91.5%**)
- Max drawdown : -0.3%
- Number of long trades : 817
- Number of short trades : 799
- % of winners : 79.3%
- Average profit factor : 16.5
- Average trade lenght : 4 days


Net Assets Value - year 2018
Nav_Curve
Net Assets Values in $
750000
700000
650000
600000
550000
500000
450000
400000
0
25
50
75
100
125
150
175
200
Days

# 2019 results

- Starting capital : 400 000$
- Pnl for the portfolio : 278 000$ (**+70%**)
- Max drawdown : -0.2%
- Number of long trades : 573
- Number of short trades : 561
- % of winners : 76%
- Average profit factor : 15.2
- Average trade lenght : 5 days


Net Assets Value - year 2019
Nav_Curve
Net Assets Values in $
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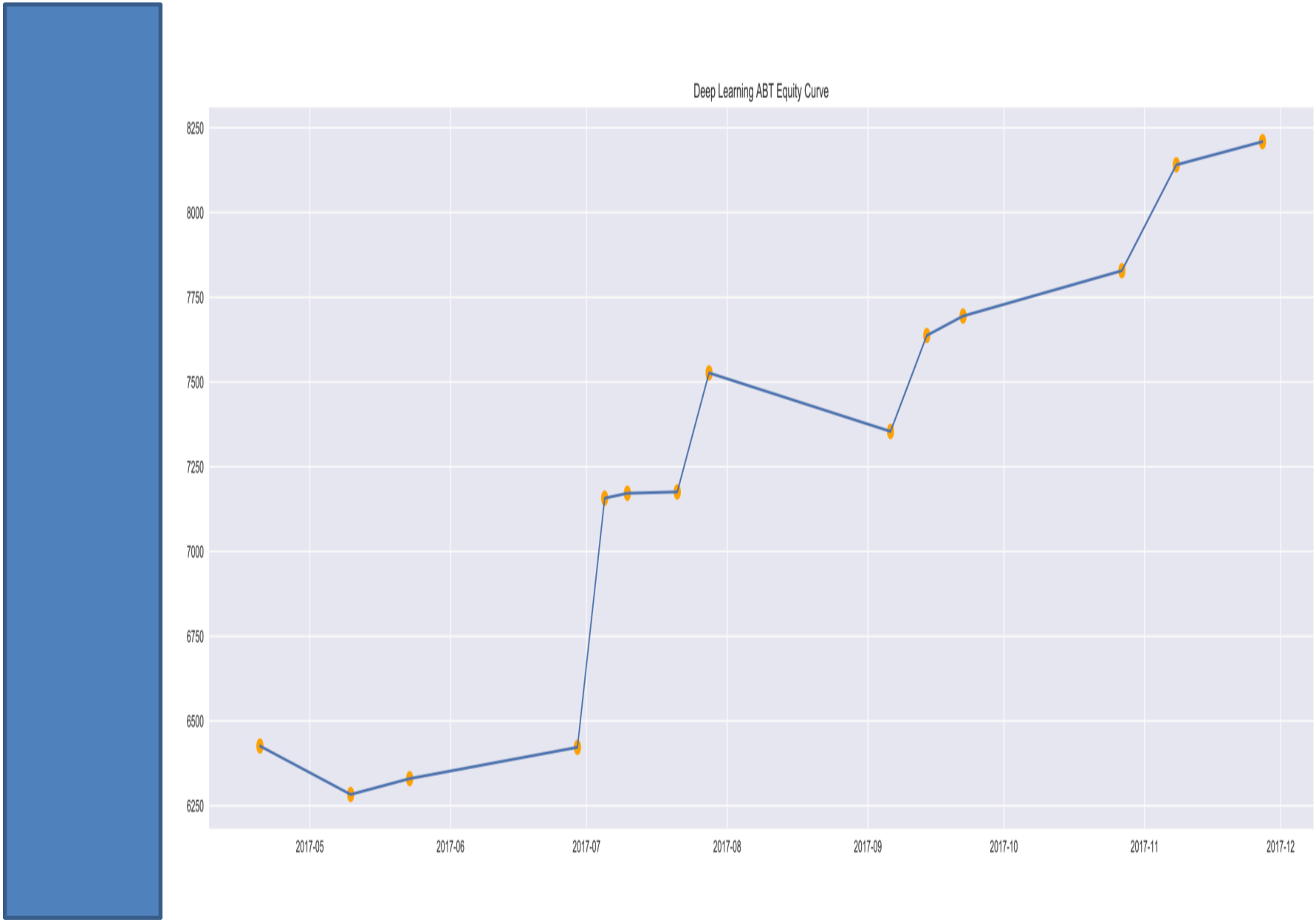
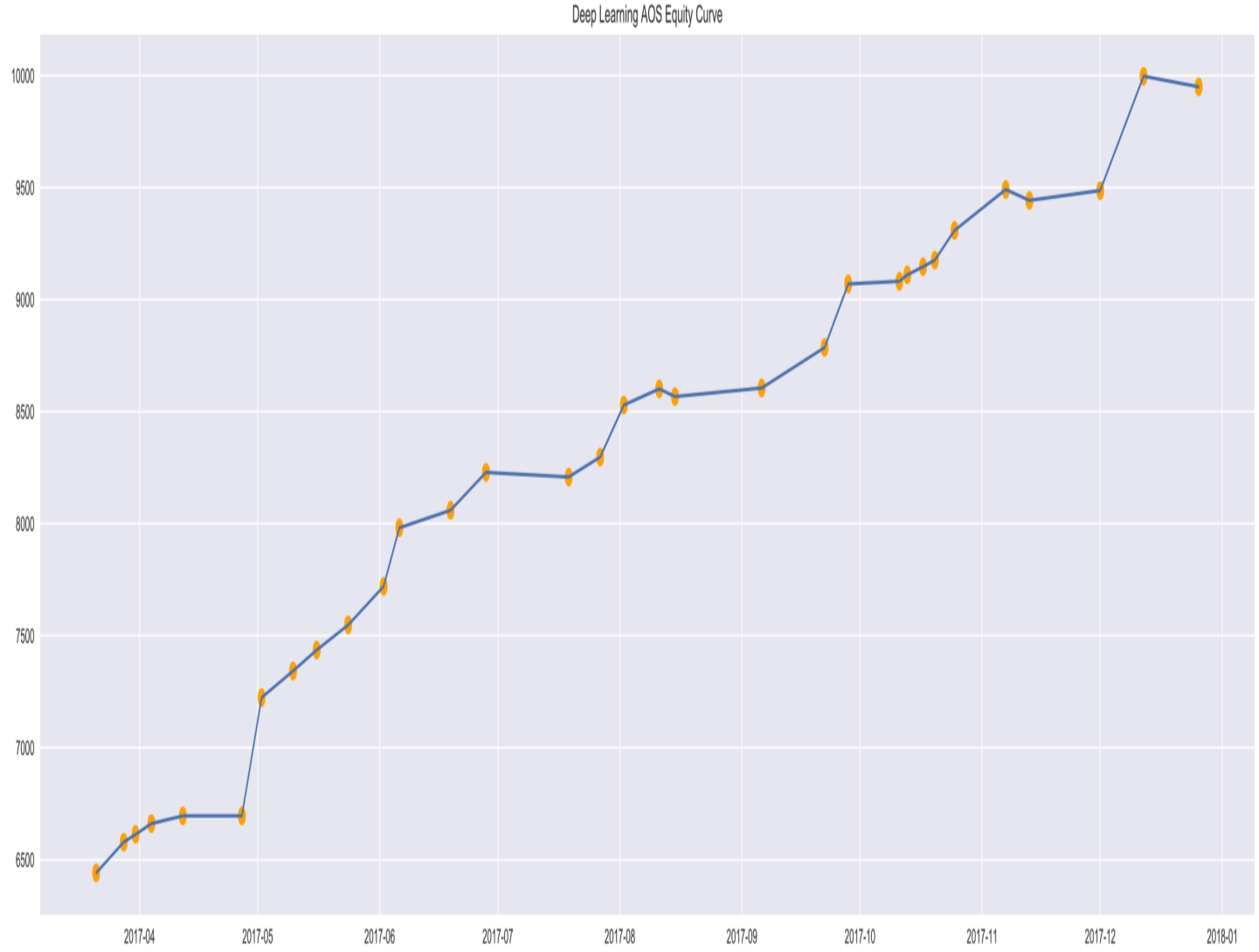
600000
550000
500000
450000
400000
0
20
40
60
80
100
120
140
160
Days

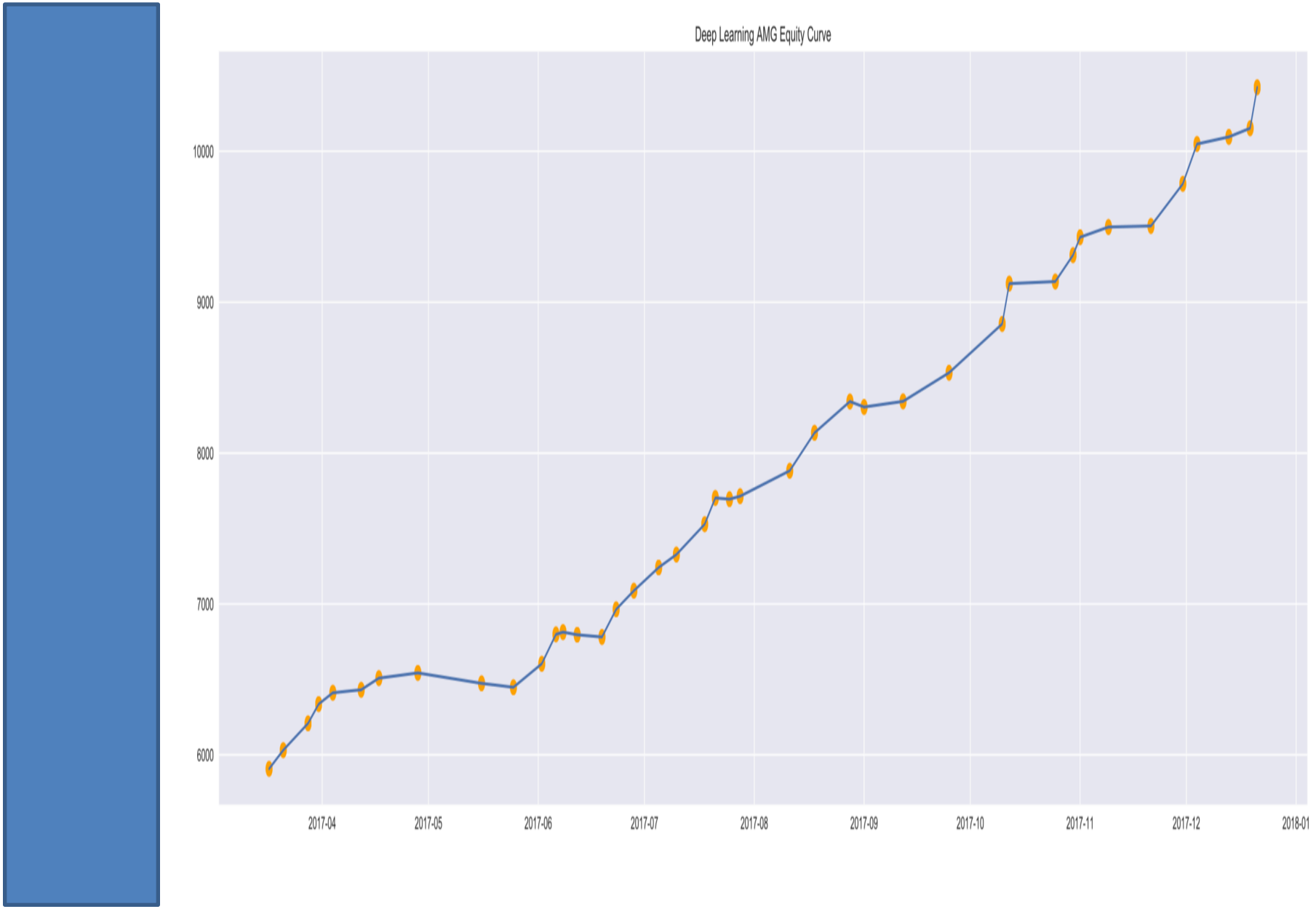
# Signals example : ABT


Deep Learning ABT Equity Curve
8250
8000
7750
7500
7250
7000
6750
6500
6250
2017-05
2017-06
2017-07
2017-08
2017-09
2017-10
2017-11
2017-12

# Signals example : AOS


Deep Learning AOS Equity Curve
10000
9500
9000
8500
8000
7500
7000
6500
2017-04
2017-05
2017-06
2017-07
2017-08
2017-09
2017-10
2017-11
2017-12
2018-01

# Signals example : AMG


Deep Learning AMG Equity Curve
10000
9000
8000
7000
6000
2017-04
2017-05
2017-06
2017-07
2017-08
2017-09
2017-10
2017-11
2017-12
2018-01

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