request

September 29, 2021

[1]:
```python
import requests
import pandas as pd
```

0.1 Let say

Let say, TWTR.csv is my realtime data (follow `realtime-evolution-strategy.ipynb`), remember, we trained using `Close`, and `Volume` data.

So every request means new daily data.

You can improve the code to bind historical data with your own database or any websocket streaming data. Imagination is your limit now.

[2]:
```python
df = pd.read_csv('TWTR.csv')
df.head()
```

[2]:

	Date	Open	High	Low	Close	Adj Close	Volume
0	2018-05-23	32.700001	33.430000	32.599998	33.419998	33.419998	13407500
1	2018-05-24	33.439999	33.759998	33.119999	33.520000	33.520000	14491900
2	2018-05-25	33.540001	33.990002	33.310001	33.630001	33.630001	10424400
3	2018-05-29	33.419998	34.830002	33.349998	34.040001	34.040001	22086700
4	2018-05-30	34.200001	34.660000	34.080002	34.360001	34.360001	14588200

[3]:
```python
close = df['Close'].tolist()
volume = df['Volume'].tolist()
```

0.2 Check balance

[4]:
```python
requests.get('http://localhost:8005/balance').json()
```

[4]:
```
93.51999599999999
```

This is the initial capital we have for now, you can check agent.ipynb how I defined it, or you can overwrite it.

0.3 Trading

[5]:
```python
import json

data = json.dumps([close[0], volume[0]])
data
```

[5]: '[33.419998, 13407500]'

Remember, my last training session was only used `Close` and `Volume`, you need to edit it to accept any kind of parameters.

[6]:
```python
requests.get('http://localhost:8005/trade?data='+data).json()
```

[6]:
```
{'action': 'fail',
 'balance': 93.51999599999999,
 'status': 'data not enough to trade',
 'timestamp': '2019-08-31 02:40:10.625022'}
```

Reason why you got 'data not enough to trade', because, the agent waiting another data to complete the queue, atleast same as `window_size` size.

Last time I defined `window_size` is 20, means, it only look back 20 historical data to trade.

Assume now, you have 100 times new datapoints going in, you want to trade these datapoints.

[7]:
```python
for i in range(200):
    data = json.dumps([close[i], volume[i]])
    requested = requests.get('http://localhost:8005/trade?data=' + data).json()
    print(requested)
```

```
{'action': 'fail', 'balance': 93.51999599999999, 'status': 'data not enough to
trade', 'timestamp': '2019-08-31 02:40:10.690977'}
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```

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