binance

May 19, 2021

1 Final Project

1.1 Imports

```
[51]: # <include-final_project/utils.py>

[52]: # <imports>
    import numpy as np
    import pandas as pd
    import plotly.io as pio

from final_project import utils

pd.options.plotting.backend = "plotly"
    pio.templates.default = "seaborn"
```

1.1.1 Markets

```
[53]: df_exch = utils.get_exchange_info()
df_exch.loc["BTCUSDT"]
```

```
[53]: status
                                                                                  TRADING
      baseAsset
                                                                                      BTC
      baseAssetPrecision
                                                                                        8
                                                                                     USDT
      quoteAsset
      quotePrecision
                                                                                        8
      quoteAssetPrecision
                                                                                        8
      baseCommissionPrecision
                                                                                        8
      quoteCommissionPrecision
                                      [LIMIT, LIMIT_MAKER, MARKET, STOP_LOSS_LIMIT, ...
      orderTypes
      icebergAllowed
                                                                                     True
      ocoAllowed
                                                                                     True
      quoteOrderQtyMarketAllowed
                                                                                     True
      isSpotTradingAllowed
                                                                                     True
      isMarginTradingAllowed
                                                                                     True
      filters
                                      [{'filterType': 'PRICE_FILTER', 'minPrice': '0...
```

permissions [SPOT, MARGIN]

Name: BTCUSDT, dtype: object

1.2 Contracts

```
[55]: df_perpetual = utils.get_continuous_contracts(pair="BTCUSDT", \( \) \( \times \text{time} = \) 2021-05-01", contract_type="CURRENT_QUARTER") utils.make_price_volume_chart(df_perpetual, title="BTCUSDT Current Quarter OHLC_\( \times \) 8 Hour Intervals")
```

1.3 Spot Prices

These are the same prices as above.

```
[56]: df_spot = utils.get_klines(symbol="BTCUSDT", start_time="2021-05-01")
utils.make_price_volume_chart(df_spot, title="BTCUSDT OHLC 8 Hour Intervals")
```

1.4 Funding Rate

```
[57]: df_funding = utils.get_funding_rate_history(symbol="BTCUSDT",

⇒start_time="2021-04-30 16:00")

fig = df_funding.plot(title="BTCUSDT Funding Rate")

fig.update_layout(showlegend=False)

fig.show()
```