R Markdown Output

Overview

This document has code embedded throughout. In the next section we will create a visualization using the already loaded dataset eth_data:

datatable(eth_data)

Price Chart - Ethereum



Python Code Example

7715

7716

BTCUSD

BTCUSD

BTC

BTC

```
import pandas as pd
# Create the Python object from R
df = r.cryptodata
# Show the new Python dataframe
df
##
           pair symbol
                         ask_1_price
                                            date_time_utc
## 0
         ETHUSD
                    ETH
                            1631.094 2021-02-05 06:00:01
## 1
         BTCUSD
                    BTC
                           37067.590 2021-02-05 06:00:00
## 2
         ETHUSD
                            1633.357 2021-02-05 05:00:01
                    ETH
         BTCUSD
                           37265.460 2021-02-05 05:00:00
## 3
                    BTC
         ETHUSD
                            1639.221 2021-02-05 04:00:01
## 4
                    ETH
## ...
## 7713
         {\tt BTCUSD}
                           11972.900 2020-08-10 06:03:50
                    BTC
## 7714
         BTCUSD
                    BTC
                           11985.890 2020-08-10 05:03:48
```

10686.880

11997.470 2020-08-10 04:32:55

NaT

```
## 7717 ETHUSD
                    ETH
                             357.844
                                                      NaT
##
## [7718 rows x 4 columns]
```

One more Python example

The code below creates a new column price_percentile that specifies if the price for the row was in the upper or lower 50th percentile of prices (BTC should be upper and ETH lower):

```
import numpy as np
# Create a new column based on the ask_1_price value:
df['price_percentile'] = np.where(df['ask_1_price'] >
                                  np.percentile(df['ask_1_price'], 50),
                            'upper 50th percentile of prices',
                            'lower 50th percentile of prices')
# Show modified dataframe:
df[['symbol', 'ask_1_price', 'price_percentile']]
##
        symbol
                ask_1_price
                                            price_percentile
## O
           ETH
                   1631.094 lower 50th percentile of prices
           BTC
                  37067.590 upper 50th percentile of prices
## 1
## 2
           ETH
                   1633.357 lower 50th percentile of prices
                  37265.460 upper 50th percentile of prices
## 3
           BTC
## 4
           ETH
                   1639.221 lower 50th percentile of prices
## ...
                  11972.900 upper 50th percentile of prices
## 7713
           BTC
## 7714
                  11985.890 upper 50th percentile of prices
           BTC
## 7715
           BTC
                  11997.470 upper 50th percentile of prices
                  10686.880 upper 50th percentile of prices
## 7716
           BTC
## 7717
           ETH
                    357.844 lower 50th percentile of prices
##
## [7718 rows x 3 columns]
```