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

```
import pandas as pd
# Create the Python object from R
df = r.cryptodata
# Show the new Python dataframe
df
## pair symbol ask_1_pric
```

##		pair	symbol	ask_1_price	date_t	ime_utc
##	0	ETHUSD	ETH	1808.255	2021-02-16 0	6:00:01
##	1	BTCUSD	BTC	49188.800	2021-02-16 0	6:00:00
##	2	ETHUSD	ETH	1812.365	2021-02-16 0	5:00:01
##	3	BTCUSD	BTC	49344.590	2021-02-16 0	5:00:00
##	4	BTCUSD	BTC	49612.760	2021-02-16 0	4:00:01
##						
##	8241	BTCUSD	BTC	11972.900	2020-08-10 0	6:03:50
##	8242	BTCUSD	BTC	11985.890	2020-08-10 0	5:03:48
##	8243	BTCUSD	BTC	11997.470	2020-08-10 0	4:32:55
##	8244	BTCUSD	BTC	10686.880		NaT

```
## 8245 ETHUSD
                    ETH
                             357.844
                                                      NaT
##
## [8246 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
                   1808.255 lower 50th percentile of prices
           BTC
                  49188.800 upper 50th percentile of prices
## 1
## 2
           ETH
                   1812.365 lower 50th percentile of prices
                  49344.590 upper 50th percentile of prices
## 3
           BTC
## 4
           BTC
                  49612.760 upper 50th percentile of prices
## ...
                  11972.900 upper 50th percentile of prices
## 8241
           BTC
## 8242
                  11985.890 upper 50th percentile of prices
           BTC
## 8243
           BTC
                  11997.470 upper 50th percentile of prices
                  10686.880 upper 50th percentile of prices
## 8244
           BTC
## 8245
           ETH
                    357.844 lower 50th percentile of prices
##
## [8246 rows x 3 columns]
```