R Markdown Output

Last run on: 2021-04-14 06:13:46

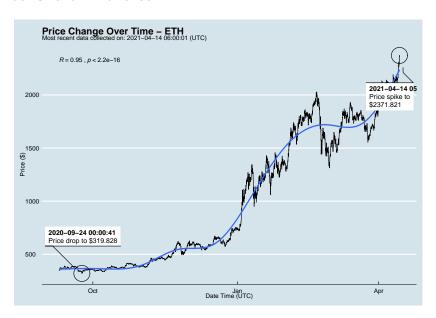
2021-04-14 06:13:46

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_price | $\mathtt{date_time_utc}$ |
|----|-------|--------|--------|-------------|----------------------------|
| ## | 0 | BTCUSD | BTC | 64030.000 | 2021-04-14 06:00:01 |
| ## | 1 | ETHUSD | ETH | 2362.220 | 2021-04-14 06:00:01 |
| ## | 2 | ETHUSD | ETH | 2371.821 | 2021-04-14 05:00:01 |
| ## | 3 | BTCUSD | BTC | 64259.700 | 2021-04-14 05:00:00 |
| ## | 4 | ETHUSD | ETH | 2347.038 | 2021-04-14 04:00:01 |
| ## | | | | | |
| ## | 10973 | BTCUSD | BTC | 11972.900 | 2020-08-10 06:03:50 |
| ## | 10974 | BTCUSD | BTC | 11985.890 | 2020-08-10 05:03:48 |
| ## | 10975 | BTCUSD | BTC | 11997.470 | 2020-08-10 04:32:55 |
| ## | 10976 | BTCUSD | BTC | 10686.880 | NaT |
| ## | 10977 | ETHUSD | ETH | 357.844 | NaT |

One more Python example

BTC

TTT

3

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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_] 'upper 50th percentile of price 'lower 50th percentile of price # Show modified dataframe: df[['symbol', 'ask_1_price', 'price_percentile']]

```
symbol
##
                 ask_1_price
                                              price_percent:
            BTC
                   64030.000
                               upper 50th percentile of price
## 0
                    2362.220
                               lower 50th percentile of price
## 1
            ETH
            ETH
                    2371.821
                               lower 50th percentile of price
## 2
```

upper 50th percentile of price

larram EO+h mamaan+ila af nmi

64259.700

22/2 220