

R Markdown Output

Last run on: 2021-06-07 06:46:41

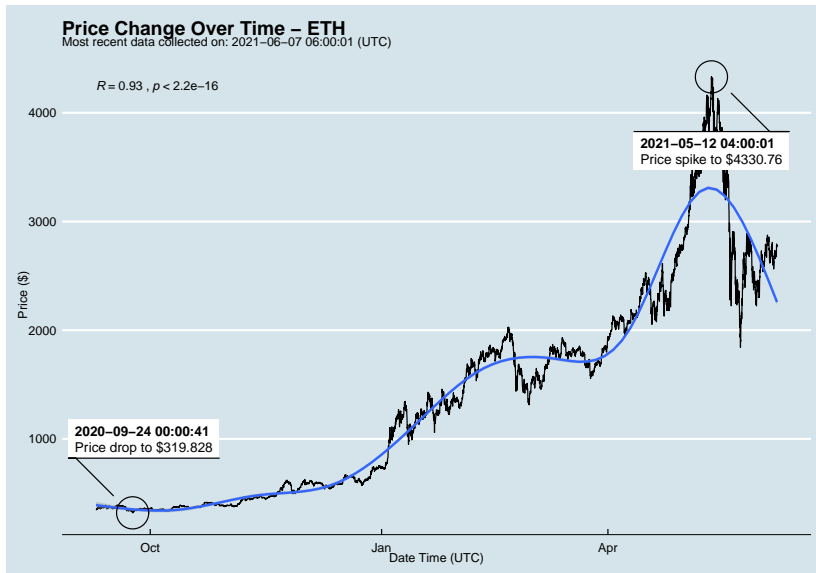
2021-06-07 06:46:41

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 | date_time_utc |
|----------|--------|--------|-------------|---------------------|
| ## 0 | ETHUSD | ETH | 2786.230 | 2021-06-07 06:00:01 |
| ## 1 | BTCUSD | BTC | 36281.630 | 2021-06-07 06:00:00 |
| ## 2 | ETHUSD | ETH | 2771.085 | 2021-06-07 05:00:01 |
| ## 3 | BTCUSD | BTC | 36259.360 | 2021-06-07 05:00:00 |
| ## 4 | BTCUSD | BTC | 36387.280 | 2021-06-07 04:00:01 |
| ## ... | ... | ... | ... | ... |
| ## 13559 | BTCUSD | BTC | 11972.900 | 2020-08-10 06:03:50 |
| ## 13560 | BTCUSD | BTC | 11985.890 | 2020-08-10 05:03:48 |
| ## 13561 | BTCUSD | BTC | 11997.470 | 2020-08-10 04:32:55 |
| ## 13562 | BTCUSD | BTC | 10686.880 | NaT |
| ## 13563 | ETHUSD | ETH | 357.844 | NaT |

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

| | ## | symbol | ask_1_price | price_percentile |
|------|----|--------|-------------|--------------------------------|
| ## 0 | 0 | ETH | 2786.230 | lower 50th percentile of price |
| ## 1 | 1 | BTC | 36281.630 | upper 50th percentile of price |
| ## 2 | 2 | ETH | 2771.085 | lower 50th percentile of price |
| ## 3 | 3 | BTC | 36259.360 | upper 50th percentile of price |
| ## 4 | 4 | BTC | 36387.280 | upper 50th percentile of price |