

R Markdown Output

Last run on: 2021-06-16 06:12:28

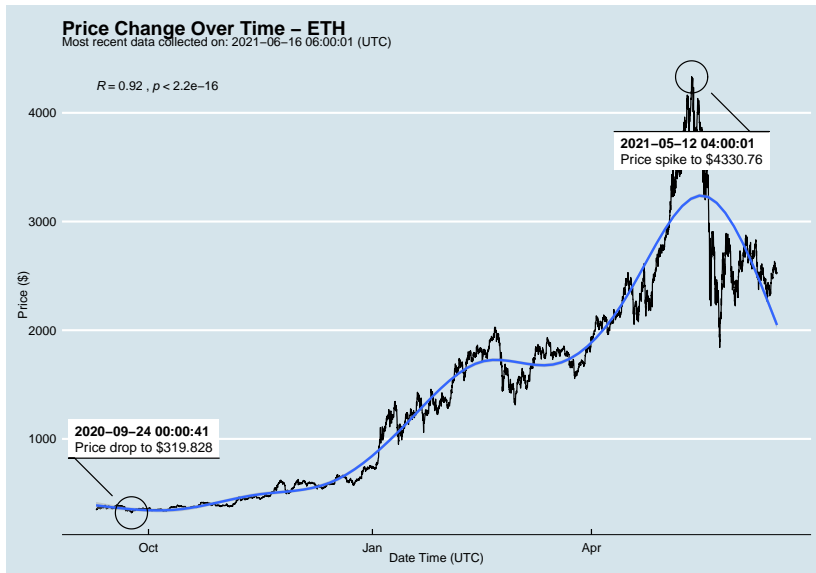
2021-06-16 06:12:28

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 | 2528.339 | 2021-06-16 06:00:01 |
| ## 1 | BTCUSD | BTC | 40252.760 | 2021-06-16 06:00:00 |
| ## 2 | ETHUSD | ETH | 2532.072 | 2021-06-16 05:00:01 |
| ## 3 | BTCUSD | BTC | 40266.560 | 2021-06-16 05:00:00 |
| ## 4 | ETHUSD | ETH | 2522.512 | 2021-06-16 04:00:01 |
| ## ... | ... | ... | ... | ... |
| ## 13991 | BTCUSD | BTC | 11972.900 | 2020-08-10 06:03:50 |
| ## 13992 | BTCUSD | BTC | 11985.890 | 2020-08-10 05:03:48 |
| ## 13993 | BTCUSD | BTC | 11997.470 | 2020-08-10 04:32:55 |
| ## 13994 | BTCUSD | BTC | 10686.880 | NaT |
| ## 13995 | 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 | ETH | 2528.339 | lower 50th percentile of price | |
| ## 1 | BTC | 40252.760 | upper 50th percentile of price | |
| ## 2 | ETH | 2532.072 | lower 50th percentile of price | |
| ## 3 | BTC | 40266.560 | upper 50th percentile of price | |
| ## 4 | ETH | 2522.512 | lower 50th percentile of price | |