

R Markdown Output

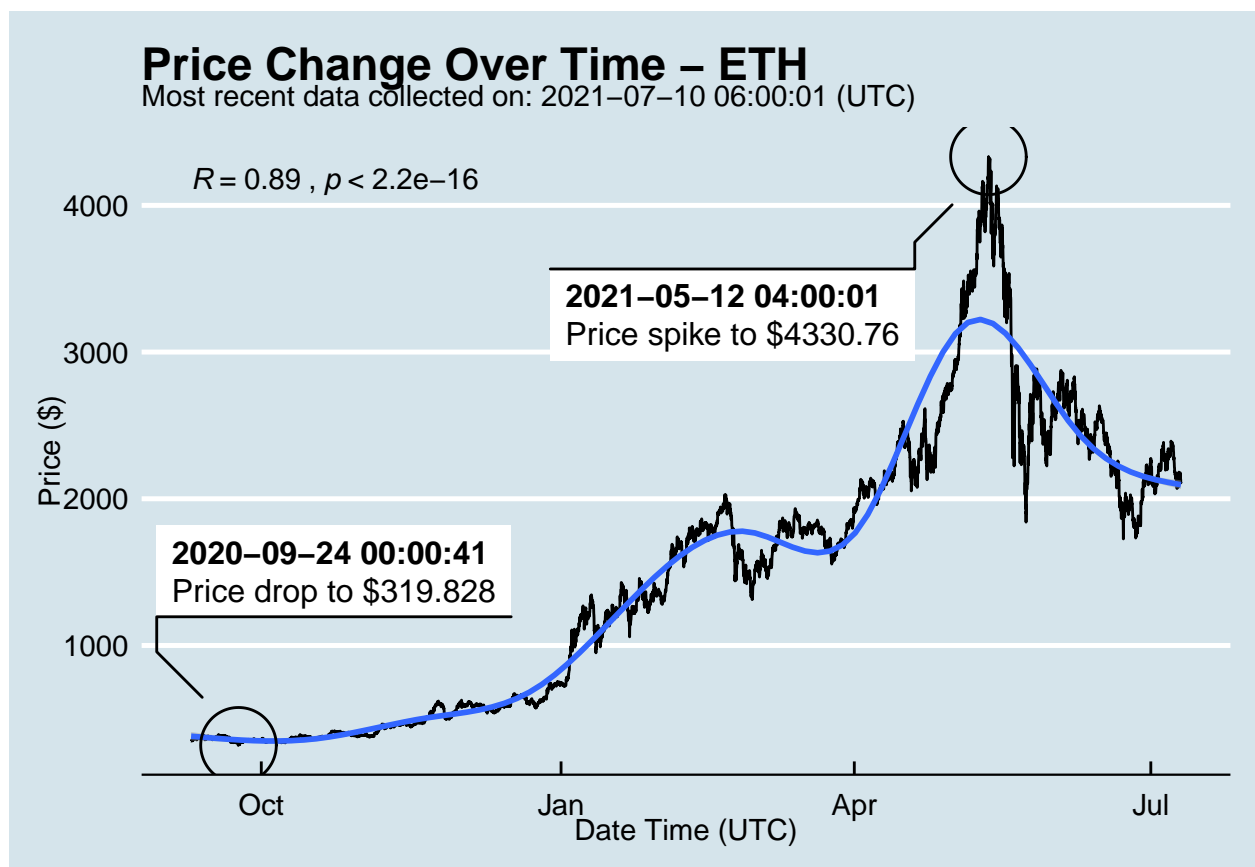
Last run on: 2021-07-10 06:13:02

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      2114.555 2021-07-10 06:00:01
## 1      BTCUSD   BTC     33653.860 2021-07-10 06:00:00
## 2      BTCUSD   BTC     33651.580 2021-07-10 05:00:01
## 3      ETHUSD   ETH      2107.891 2021-07-10 05:00:01
## 4      ETHUSD   ETH      2132.825 2021-07-10 04:00:01
## ...      ...    ...          ...          ...
## 15101 BTCUSD   BTC     11372.920 2020-08-12 00:03:55
## 15102 BTCUSD   BTC     11868.320 2020-08-11 03:03:52
## 15103 BTCUSD   BTC     11900.900 2020-08-11 02:03:53
## 15104 BTCUSD   BTC     11863.170 2020-08-11 01:03:53
## 15105 BTCUSD   BTC     11906.130 2020-08-11 00:03:49
##
## [15106 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
## 0           ETH      2114.555  lower 50th percentile of prices
## 1           BTC     33653.860  upper 50th percentile of prices
## 2           BTC     33651.580  upper 50th percentile of prices
## 3           ETH      2107.891  lower 50th percentile of prices
## 4           ETH      2132.825  lower 50th percentile of prices
## ...      ...    ...          ...
## 15101        BTC     11372.920  upper 50th percentile of prices
## 15102        BTC     11868.320  upper 50th percentile of prices
## 15103        BTC     11900.900  upper 50th percentile of prices
## 15104        BTC     11863.170  upper 50th percentile of prices
## 15105        BTC     11906.130  upper 50th percentile of prices
##
## [15106 rows x 3 columns]
```