

R Markdown Output

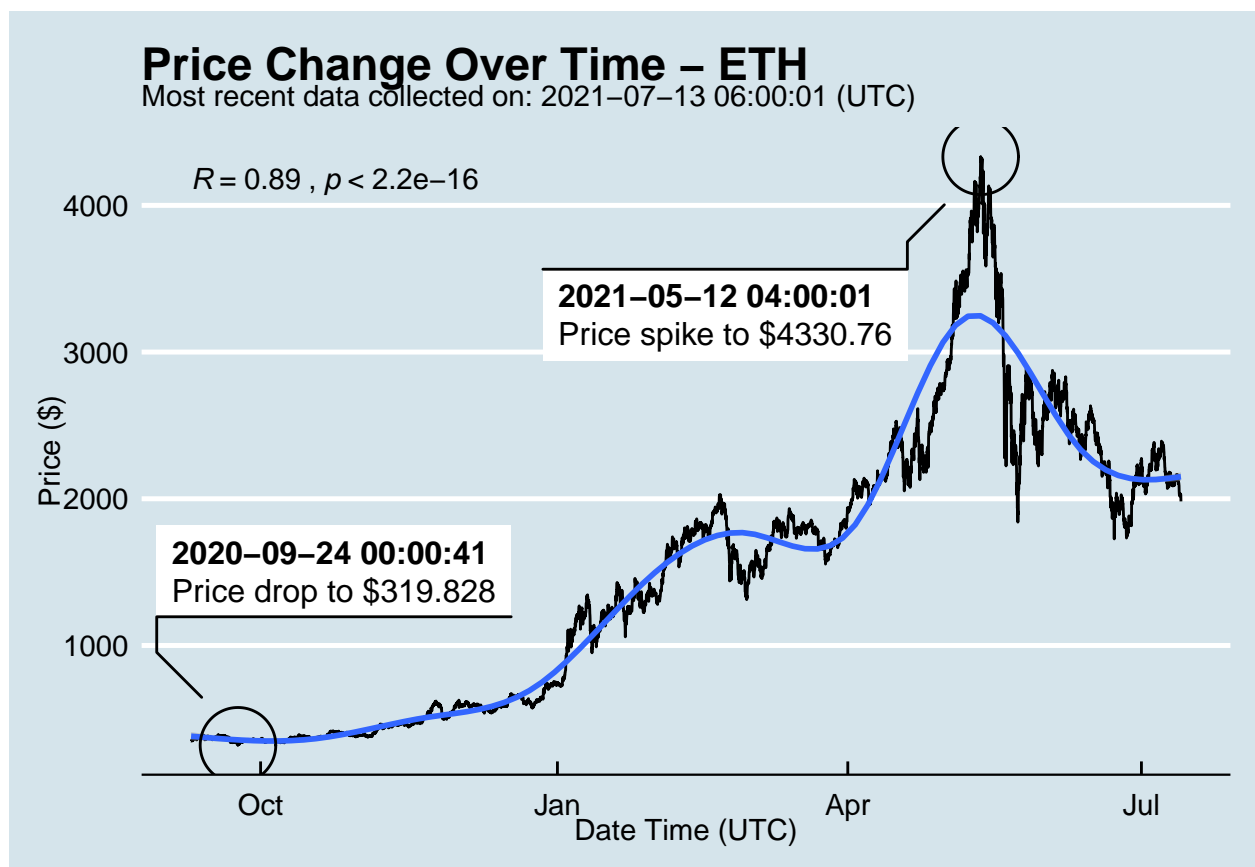
Last run on: 2021-07-13 06:12:39

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    1982.230 2021-07-13 06:00:01
## 1      BTCUSD   BTC   32825.540 2021-07-13 06:00:00
## 2      ETHUSD   ETH    2024.858 2021-07-13 05:00:01
## 3      BTCUSD   BTC   33140.010 2021-07-13 05:00:00
## 4      ETHUSD   ETH    2030.624 2021-07-13 04:00:01
## ...      ...    ...      ...      ...
## 15172 BTCUSD   BTC   11747.010 2020-08-14 04:03:56
## 15173 BTCUSD   BTC   11722.060 2020-08-14 03:03:55
## 15174 BTCUSD   BTC   11761.120 2020-08-14 02:04:04
## 15175 BTCUSD   BTC   11719.280 2020-08-14 01:03:54
## 15176 BTCUSD   BTC   11827.080 2020-08-14 00:03:56
##
## [15177 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    1982.230  lower 50th percentile of prices
## 1           BTC   32825.540  upper 50th percentile of prices
## 2           ETH    2024.858  lower 50th percentile of prices
## 3           BTC   33140.010  upper 50th percentile of prices
## 4           ETH    2030.624  lower 50th percentile of prices
## ...      ...    ...      ...
## 15172        BTC   11747.010  upper 50th percentile of prices
## 15173        BTC   11722.060  upper 50th percentile of prices
## 15174        BTC   11761.120  upper 50th percentile of prices
## 15175        BTC   11719.280  upper 50th percentile of prices
## 15176        BTC   11827.080  upper 50th percentile of prices
##
## [15177 rows x 3 columns]
```