

R Markdown Output

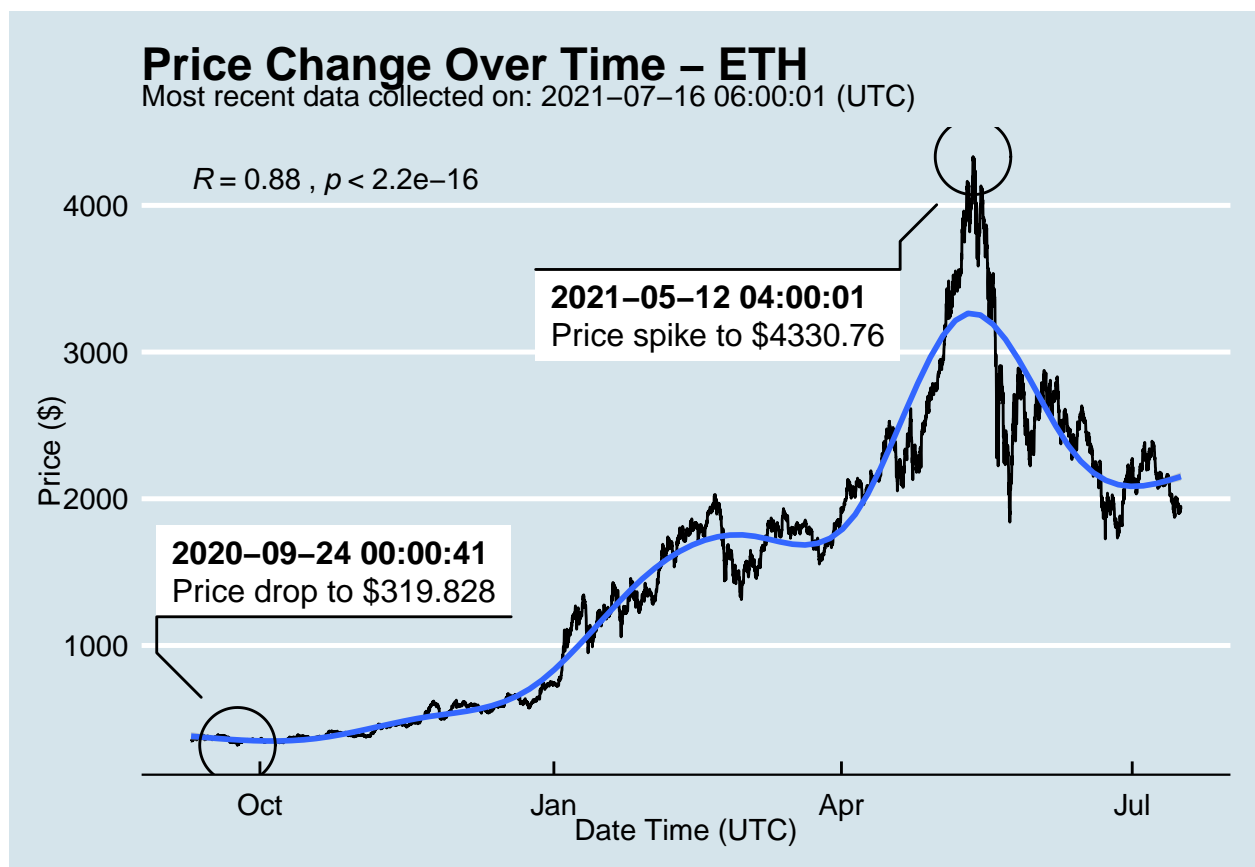
Last run on: 2021-07-16 06:15:18

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    1928.872 2021-07-16 06:00:01
## 1      BTCUSD   BTC    31804.460 2021-07-16 06:00:00
## 2      ETHUSD   ETH    1947.025 2021-07-16 05:00:01
## 3      BTCUSD   BTC    31916.240 2021-07-16 05:00:00
## 4      ETHUSD   ETH    1949.451 2021-07-16 04:00:01
## ...      ...    ...      ...      ...
## 15244 BTCUSD   BTC    11844.000 2020-08-17 04:03:55
## 15245 BTCUSD   BTC    11855.070 2020-08-17 03:03:54
## 15246 BTCUSD   BTC    11838.670 2020-08-17 02:04:02
## 15247 BTCUSD   BTC    11825.050 2020-08-17 01:03:53
## 15248 BTCUSD   BTC    11925.450 2020-08-17 00:03:56
##
## [15249 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    1928.872  lower 50th percentile of prices
## 1           BTC    31804.460  upper 50th percentile of prices
## 2           ETH    1947.025  lower 50th percentile of prices
## 3           BTC    31916.240  upper 50th percentile of prices
## 4           ETH    1949.451  lower 50th percentile of prices
## ...      ...    ...      ...
## 15244        BTC    11844.000  upper 50th percentile of prices
## 15245        BTC    11855.070  upper 50th percentile of prices
## 15246        BTC    11838.670  upper 50th percentile of prices
## 15247        BTC    11825.050  upper 50th percentile of prices
## 15248        BTC    11925.450  upper 50th percentile of prices
##
## [15249 rows x 3 columns]
```