

R Markdown Output

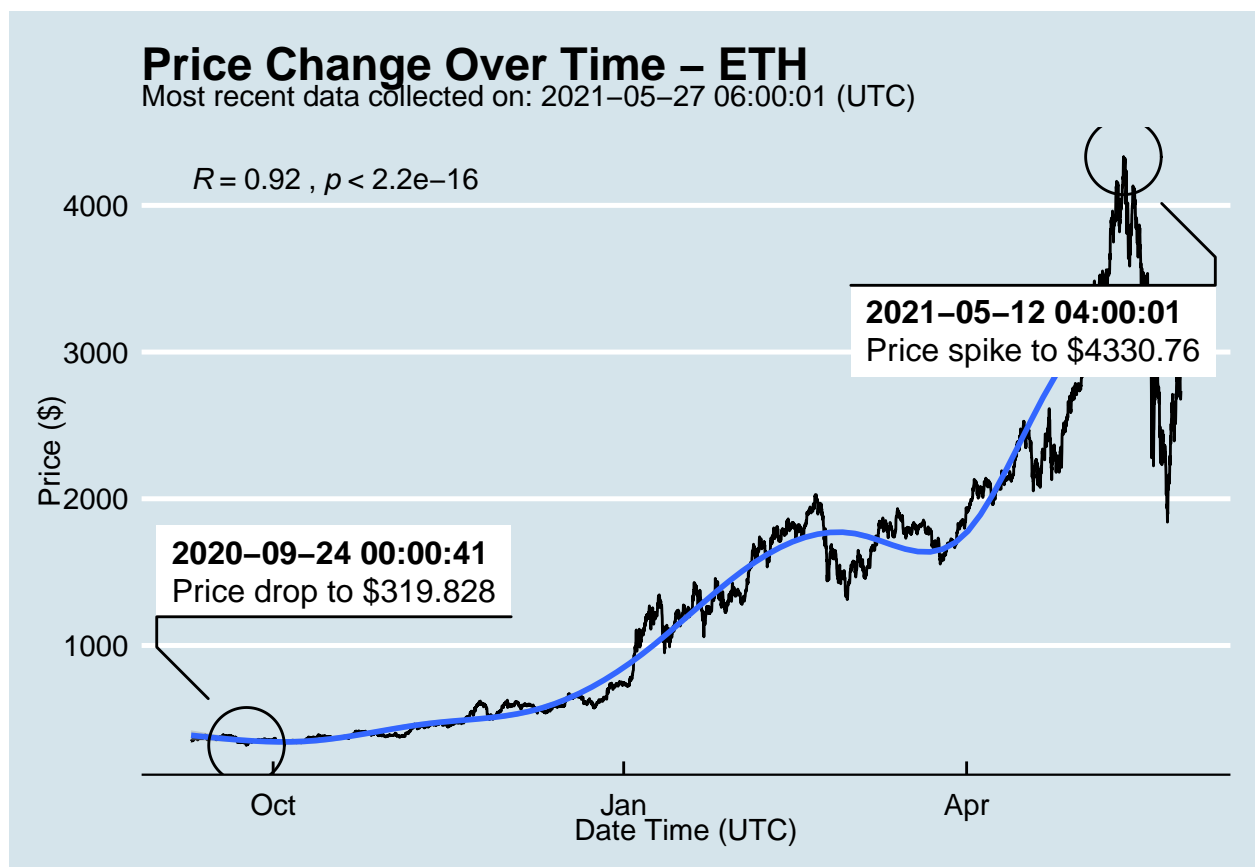
Last run on: 2021-05-27 06:27:54

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      2734.433 2021-05-27 06:00:01
## 1      BTCUSD   BTC     38143.680 2021-05-27 06:00:00
## 2      BTCUSD   BTC     37728.830 2021-05-27 05:00:01
## 3      ETHUSD   ETH      2704.843 2021-05-27 05:00:01
## 4      BTCUSD   BTC     37644.040 2021-05-27 04:00:01
## ...      ...    ...           ...
## 13033 BTCUSD   BTC     11972.900 2020-08-10 06:03:50
## 13034 BTCUSD   BTC     11985.890 2020-08-10 05:03:48
## 13035 BTCUSD   BTC     11997.470 2020-08-10 04:32:55
## 13036 BTCUSD   BTC     10686.880                NaT
## 13037 ETHUSD   ETH       357.844                NaT
##
## [13038 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      2734.433  lower 50th percentile of prices
## 1           BTC     38143.680  upper 50th percentile of prices
## 2           BTC     37728.830  upper 50th percentile of prices
## 3           ETH      2704.843  lower 50th percentile of prices
## 4           BTC     37644.040  upper 50th percentile of prices
## ...      ...    ...           ...
## 13033 BTC      11972.900  upper 50th percentile of prices
## 13034 BTC      11985.890  upper 50th percentile of prices
## 13035 BTC      11997.470  upper 50th percentile of prices
## 13036 BTC      10686.880  upper 50th percentile of prices
## 13037 ETH       357.844  lower 50th percentile of prices
##
## [13038 rows x 3 columns]
```