

R Markdown Output

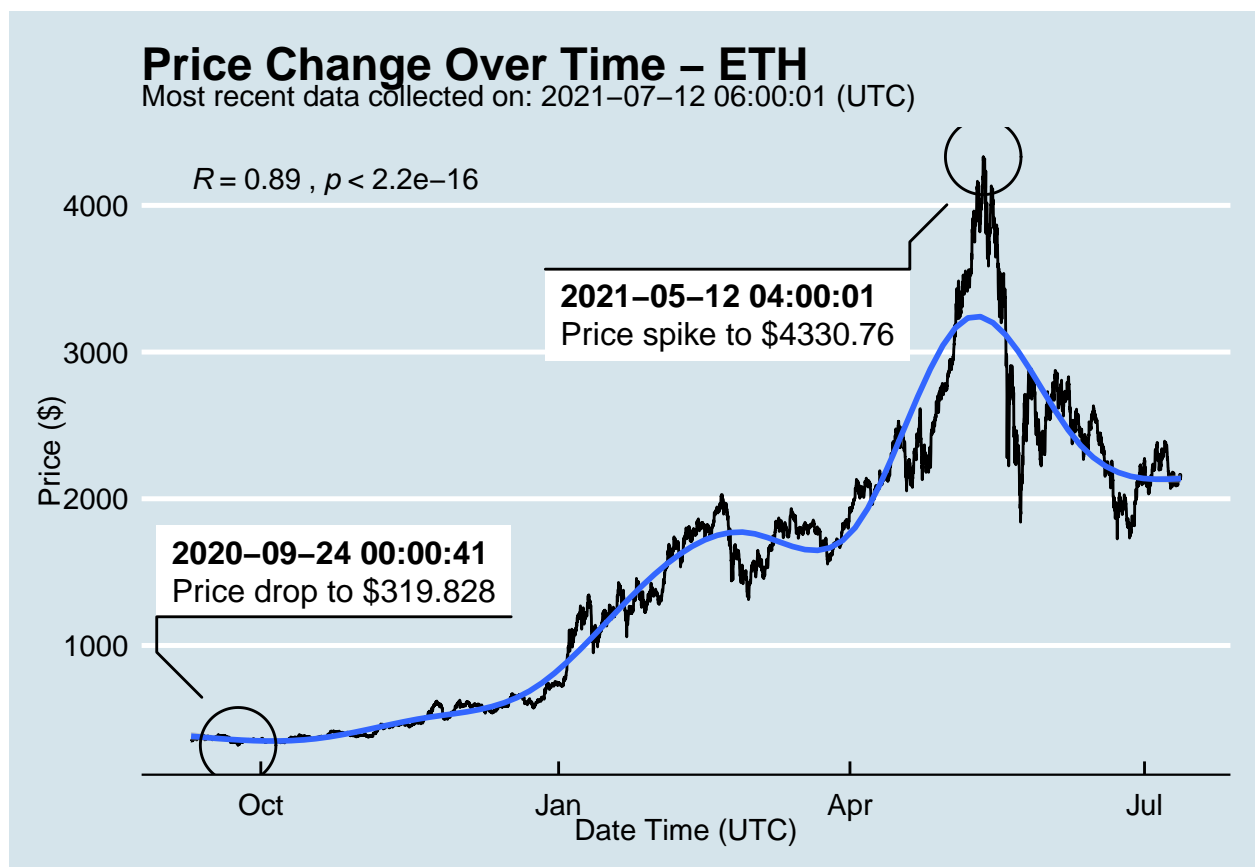
Last run on: 2021-07-12 06:12:37

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    2151.045 2021-07-12 06:00:01
## 1      BTCUSD   BTC    34344.240 2021-07-12 06:00:00
## 2      ETHUSD   ETH    2149.095 2021-07-12 05:00:01
## 3      BTCUSD   BTC    34301.190 2021-07-12 05:00:00
## 4      ETHUSD   ETH    2164.946 2021-07-12 04:00:01
## ...      ...    ...      ...      ...
## 15149 BTCUSD   BTC    11827.080 2020-08-14 00:03:56
## 15150 BTCUSD   BTC    11551.860 2020-08-13 03:03:54
## 15151 BTCUSD   BTC    11605.670 2020-08-13 02:04:01
## 15152 BTCUSD   BTC    11633.600 2020-08-13 01:03:53
## 15153 BTCUSD   BTC    11573.270 2020-08-13 00:03:52
##
## [15154 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    2151.045  lower 50th percentile of prices
## 1           BTC   34344.240  upper 50th percentile of prices
## 2           ETH    2149.095  lower 50th percentile of prices
## 3           BTC   34301.190  upper 50th percentile of prices
## 4           ETH    2164.946  lower 50th percentile of prices
## ...      ...    ...      ...
## 15149        BTC   11827.080  upper 50th percentile of prices
## 15150        BTC   11551.860  upper 50th percentile of prices
## 15151        BTC   11605.670  upper 50th percentile of prices
## 15152        BTC   11633.600  upper 50th percentile of prices
## 15153        BTC   11573.270  upper 50th percentile of prices
##
## [15154 rows x 3 columns]
```