

R Markdown Output

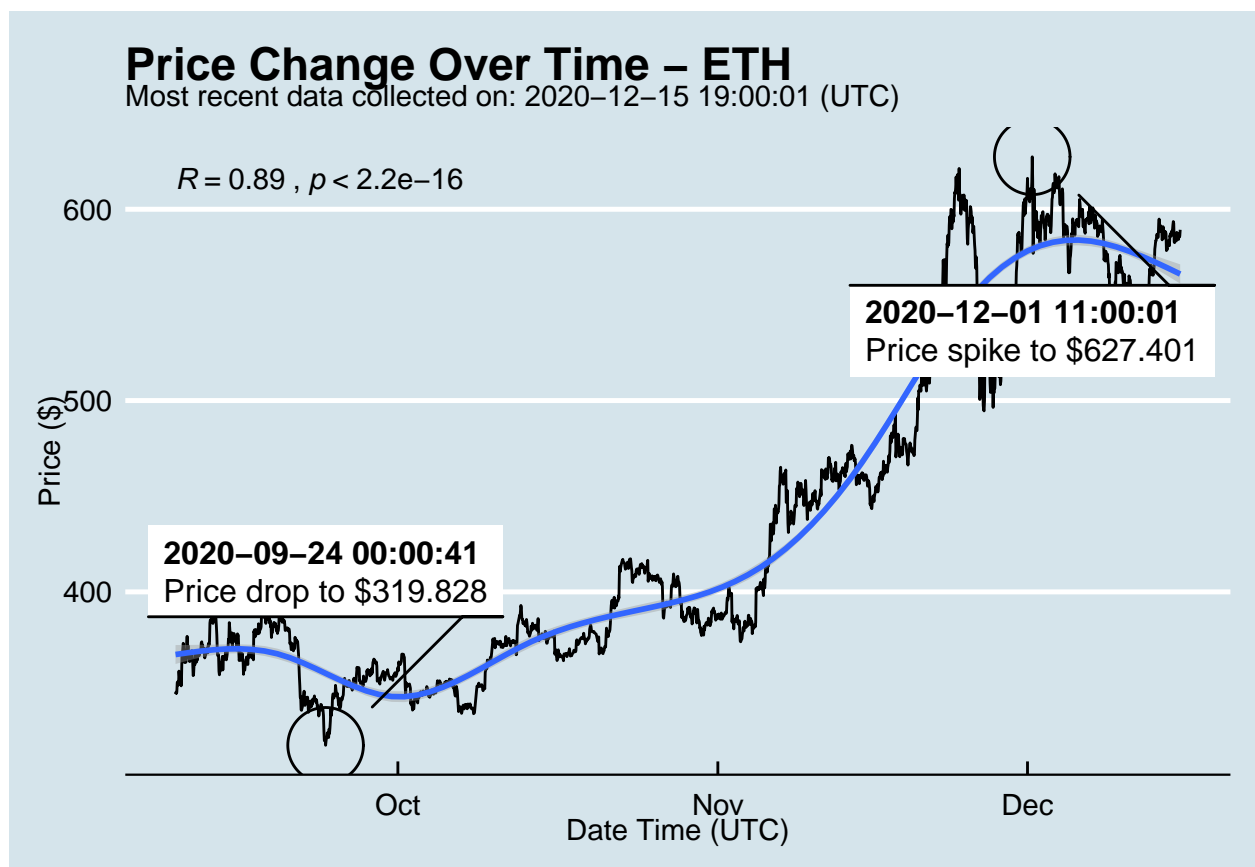
Last run on: 2020-12-15 19:18:34

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    BTCUSD    BTC    19530.830 2020-12-15 19:00:01
## 1    ETHUSD    ETH      589.274 2020-12-15 19:00:01
## 2    ETHUSD    ETH      585.940 2020-12-15 18:00:01
## 3    BTCUSD    BTC    19398.990 2020-12-15 18:00:00
## 4    ETHUSD    ETH      585.514 2020-12-15 17:00:01
## ...      ...      ...          ...
## 5243 BTCUSD    BTC    11972.900 2020-08-10 06:03:50
## 5244 BTCUSD    BTC    11985.890 2020-08-10 05:03:48
## 5245 BTCUSD    BTC    11997.470 2020-08-10 04:32:55
## 5246 BTCUSD    BTC    10686.880                NaT
## 5247 ETHUSD    ETH      357.844                NaT
##
## [5248 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          BTC    19530.830  upper 50th percentile of prices
## 1          ETH      589.274  lower 50th percentile of prices
## 2          ETH      585.940  lower 50th percentile of prices
## 3          BTC    19398.990  upper 50th percentile of prices
## 4          ETH      585.514  lower 50th percentile of prices
## ...      ...      ...
## 5243 BTC    11972.900  upper 50th percentile of prices
## 5244 BTC    11985.890  upper 50th percentile of prices
## 5245 BTC    11997.470  upper 50th percentile of prices
## 5246 BTC    10686.880  upper 50th percentile of prices
## 5247 ETH      357.844  lower 50th percentile of prices
##
## [5248 rows x 3 columns]
```