R Markdown Output

Last run on: 2021-07-16 06:13:46

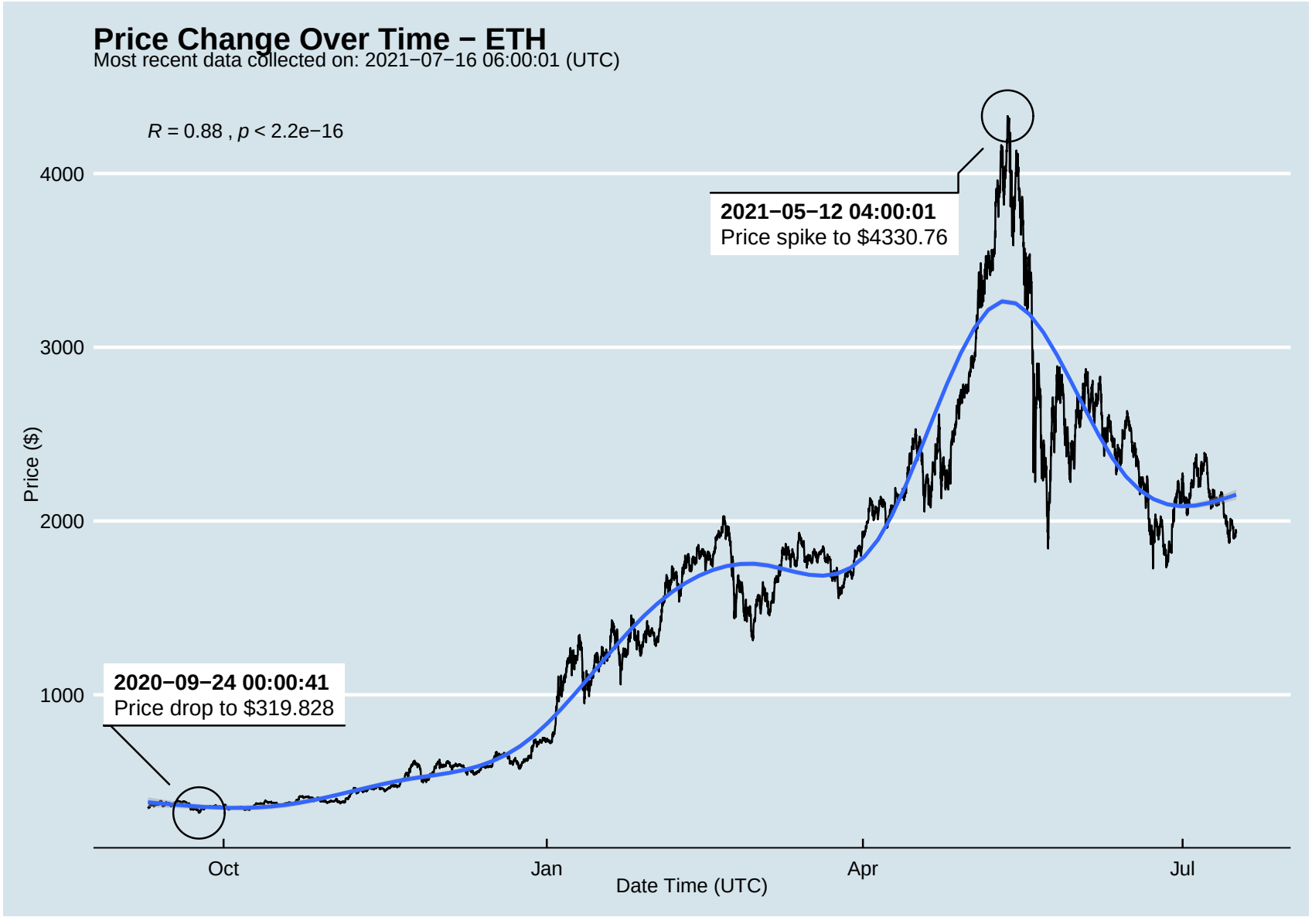
2021-07-16 06:13:46

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
```

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_p
                                 'upper 50th percentile of price
                                 'lower 50th percentile of price
# Show modified dataframe:
df[['symbol', 'ask_1_price', 'price_percentile']]
```

```
##       symbol  ask_1_price                    price_percenti
## 0        ETH     1928.872  lower 50th percentile of pric
## 1        BTC    31804.460  upper 50th percentile of pric
## 2        ETH     1947.025  lower 50th percentile of pric
## 3        BTC    31916.240  upper 50th percentile of pric
## 4        ETH     1949.451  lower 50th percentile of pric
```