R Markdown Output

Last run on: 2021-03-30 06:14:18

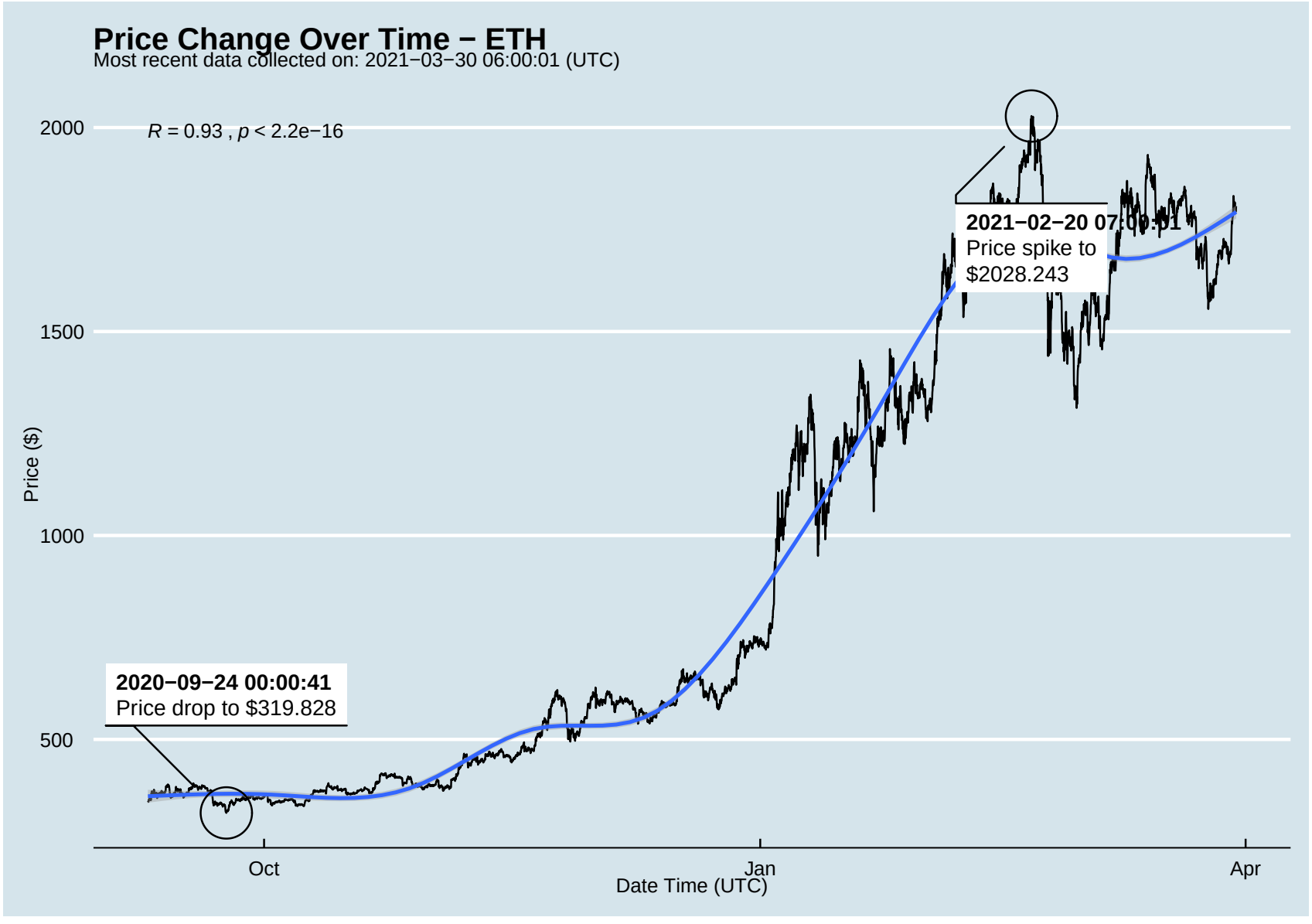
2021-03-30 06:14:18

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        BTCUSD    BTC    57679.650 2021-03-30 06:00:01
## 1        ETHUSD    ETH     1807.085 2021-03-30 06:00:01
## 2        BTCUSD    BTC    57586.000 2021-03-30 05:00:01
## 3        ETHUSD    ETH     1802.569 2021-03-30 05:00:01
## 4        BTCUSD    BTC    57182.030 2021-03-30 04:00:01
## ...         ...    ...          ...                 ...
## 10253    BTCUSD    BTC    11972.900 2020-08-10 06:03:50
## 10254    BTCUSD    BTC    11985.890 2020-08-10 05:03:48
## 10255    BTCUSD    BTC    11997.470 2020-08-10 04:32:55
## 10256    BTCUSD    BTC    10686.880                 NaT
## 10257    ETHUSD    ETH      357.844                 NaT
```

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        BTC    57679.650  upper 50th percentile of pric
## 1        ETH     1807.085  lower 50th percentile of pric
## 2        BTC    57586.000  upper 50th percentile of pric
## 3        ETH     1802.569  lower 50th percentile of pric
## 4        BTC    57182.030  upper 50th percentile of pric
```