# R Markdown Output

Last run on: 2021-07-12 06:11:24

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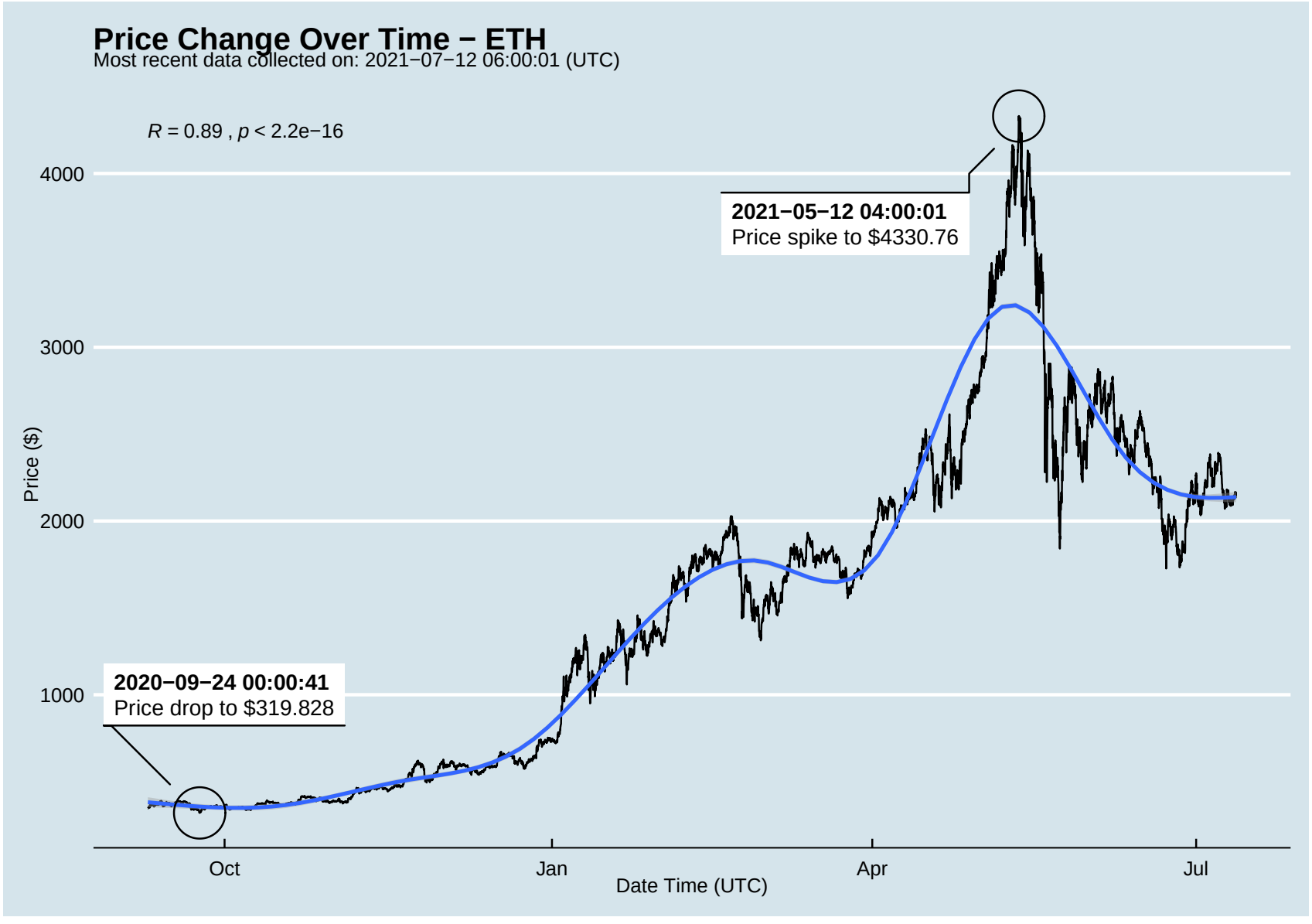
# Overview

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
```

# 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     2151.045  lower 50th percentile of pric
## 1        BTC    34344.240  upper 50th percentile of pric
## 2        ETH     2149.095  lower 50th percentile of pric
## 3        BTC    34301.190  upper 50th percentile of pric
## 4        ETH     2164.946  lower 50th percentile of pric
```