# R Markdown Output

Last run on: 2021-04-22 06:13:40

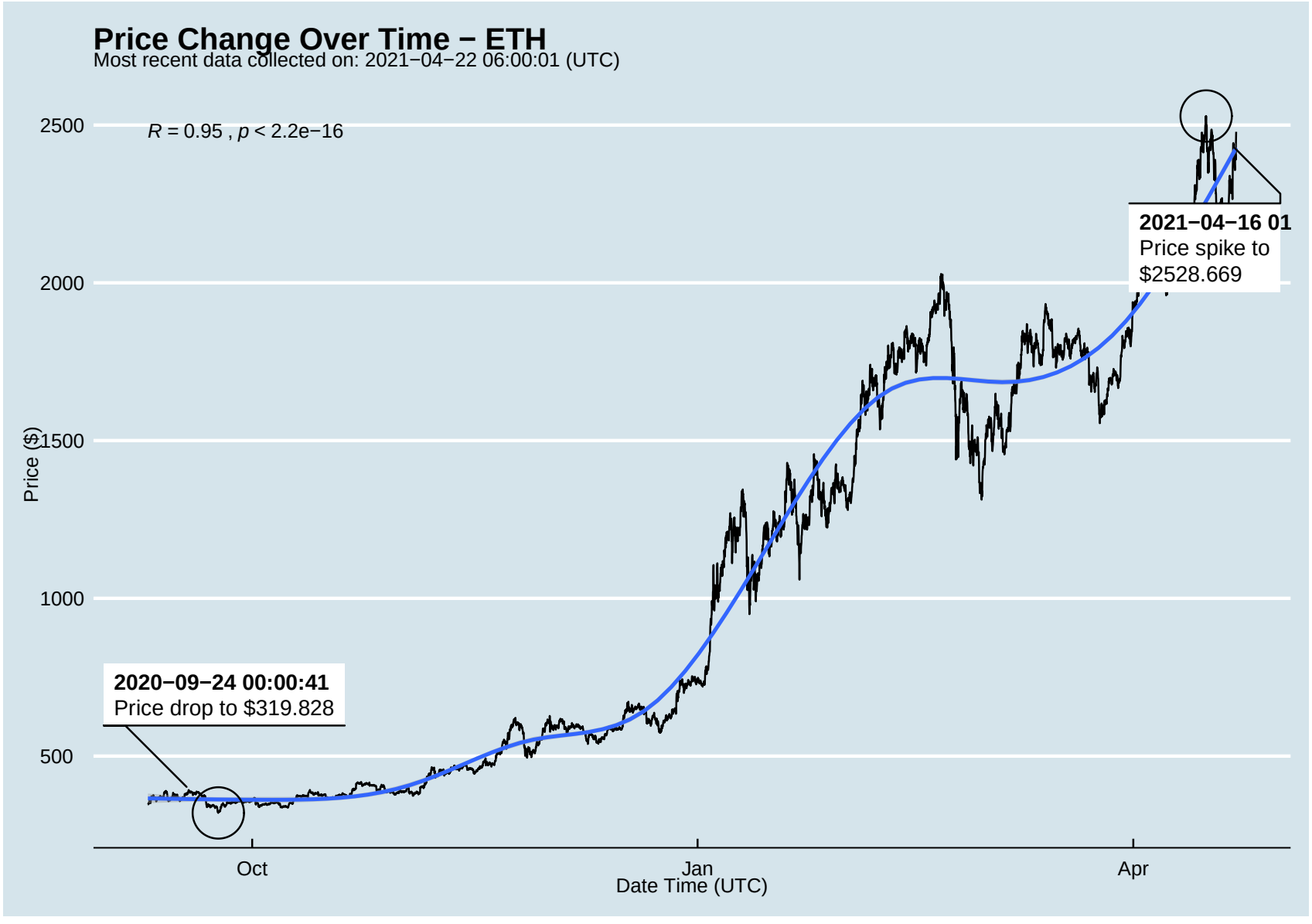
2021-04-22 06:13:40

# 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     2478.636 2021-04-22 06:00:01
## 1       BTCUSD    BTC    54447.600 2021-04-22 06:00:00
## 2       ETHUSD    ETH     2447.587 2021-04-22 05:00:01
## 3       BTCUSD    BTC    54269.180 2021-04-22 05:00:00
## 4       ETHUSD    ETH     2390.330 2021-04-22 04:00:01
## ...        ...    ...          ...                 ...
## 11357   BTCUSD    BTC    11972.900 2020-08-10 06:03:50
## 11358   BTCUSD    BTC    11985.890 2020-08-10 05:03:48
## 11359   BTCUSD    BTC    11997.470 2020-08-10 04:32:55
## 11360   BTCUSD    BTC    10686.880                 NaT
## 11361   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        ETH     2478.636  lower 50th percentile of pric
## 1        BTC    54447.600  upper 50th percentile of pric
## 2        ETH     2447.587  lower 50th percentile of pric
## 3        BTC    54269.180  upper 50th percentile of pric
## 4        ETH     2390.330  lower 50th percentile of pric
```