R Markdown Output

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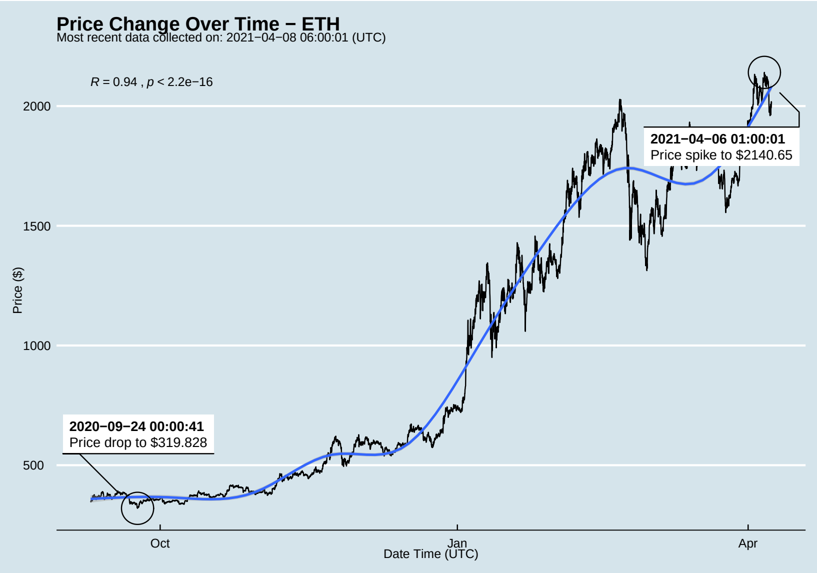
Overview

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

```python
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    56860.000 2021-04-08 06:00:01
## 1      ETHUSD    ETH     2011.485 2021-04-08 06:00:01
## 2      ETHUSD    ETH     2018.416 2021-04-08 05:00:01
## 3      BTCUSD    BTC    56907.250 2021-04-08 05:00:00
## 4      ETHUSD    ETH     1994.412 2021-04-08 04:00:01
## ...       ...    ...          ...                 ...
## 10685  BTCUSD    BTC    11972.900 2020-08-10 06:03:50
## 10686  BTCUSD    BTC    11985.890 2020-08-10 05:03:48
## 10687  BTCUSD    BTC    11997.470 2020-08-10 04:32:55
## 10688  BTCUSD    BTC    10686.880                 NaT
## 10689  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    56860.000  upper 50th percentile of pric
## 1        ETH     2011.485  lower 50th percentile of pric
## 2        ETH     2018.416  lower 50th percentile of pric
## 3        BTC    56907.250  upper 50th percentile of pric
## 4        ETH     1994.412  lower 50th percentile of pric
```