

R Markdown Output

Last run on: 2021-07-08 06:11:41

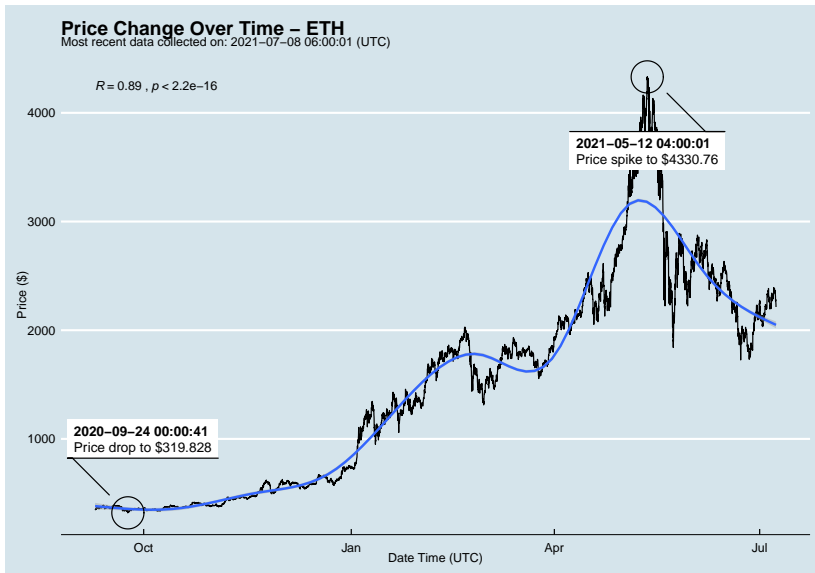
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Overview

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      BTCUSD    BTC    32872.100 2021-07-08 06:00:01
## 1      ETHUSD    ETH     2213.664 2021-07-08 06:00:01
## 2      BTCUSD    BTC    33296.350 2021-07-08 05:00:01
## 3      ETHUSD    ETH     2241.614 2021-07-08 05:00:01
## 4      ETHUSD    ETH     2254.954 2021-07-08 04:00:01
## ...      ...      ...           ...           ...
## 15047  BTCUSD    BTC    11972.900 2020-08-10 06:03:50
## 15048  BTCUSD    BTC    11985.890 2020-08-10 05:03:48
## 15049  BTCUSD    BTC    11997.470 2020-08-10 04:32:55
## 15050  BTCUSD    BTC    10686.880                NaT
## 15051  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_price'],
                                                  50,
                                                  'upper 50th percentile of price'),
                                  '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_percentile
	## 0	BTC	32872.100	upper 50th percentile of price
	## 1	ETH	2213.664	lower 50th percentile of price
	## 2	BTC	33296.350	upper 50th percentile of price
	## 3	ETH	2241.614	lower 50th percentile of price
	## 4	ETH	2254.954	lower 50th percentile of price