

R Markdown Output

Last run on: 2021-01-01 06:31:04

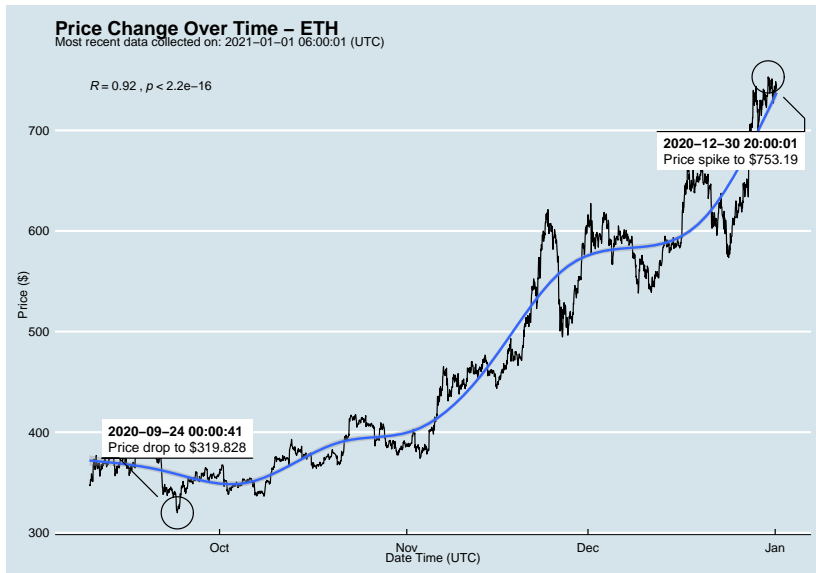
2021-01-01 06:31:04

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        740.836 2021-01-01 06:00:01
## 1      BTCUSD    BTC       29186.430 2021-01-01 06:00:00
## 2      ETHUSD    ETH        742.284 2021-01-01 05:00:01
## 3      BTCUSD    BTC       29217.820 2021-01-01 05:00:00
## 4      BTCUSD    BTC       29276.530 2021-01-01 04:00:01
## ...      ...      ...           ...           ...
## 6033 BTCUSD    BTC       11972.900 2020-08-10 06:03:50
## 6034 BTCUSD    BTC       11985.890 2020-08-10 05:03:48
## 6035 BTCUSD    BTC       11997.470 2020-08-10 04:32:55
## 6036 BTCUSD    BTC       10686.880                NaT
## 6037 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_percentile
## 0	0	ETH	740.836	lower 50th percentile of price
## 1	1	BTC	29186.430	upper 50th percentile of price
## 2	2	ETH	742.284	lower 50th percentile of price
## 3	3	BTC	29217.820	upper 50th percentile of price
## 4	4	BTC	29276.530	upper 50th percentile of price