R Markdown Output

Last run on: 2020-12-28 06:29:10

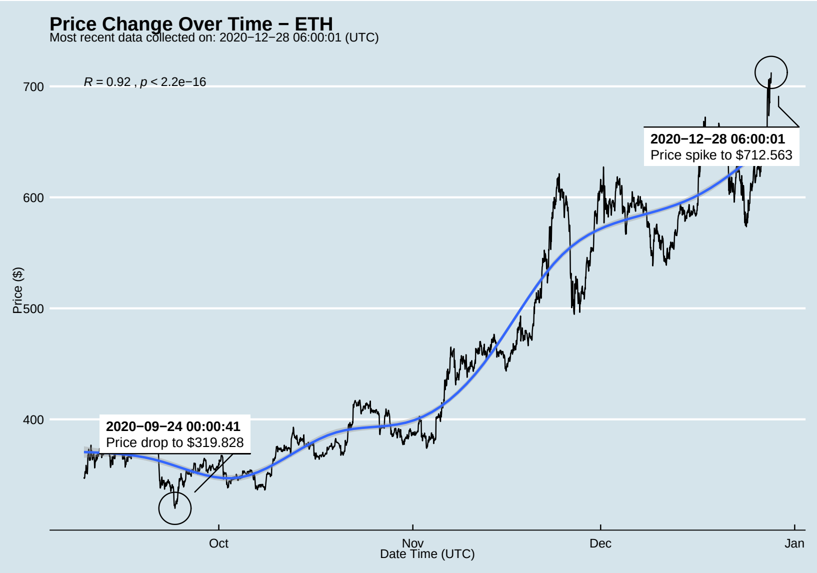
2020-12-28 06:29:10

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    26902.580 2020-12-28 06:00:01
## 1       ETHUSD    ETH      712.563 2020-12-28 06:00:01
## 2       ETHUSD    ETH      703.512 2020-12-28 05:00:01
## 3       BTCUSD    BTC    26842.600 2020-12-28 05:00:00
## 4       ETHUSD    ETH      702.904 2020-12-28 04:00:01
## ...        ...    ...          ...                 ...
## 5841    BTCUSD    BTC    11972.900 2020-08-10 06:03:50
## 5842    BTCUSD    BTC    11985.890 2020-08-10 05:03:48
## 5843    BTCUSD    BTC    11997.470 2020-08-10 04:32:55
## 5844    BTCUSD    BTC    10686.880                 NaT
## 5845    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_percentil
## 0       BTC    26902.580  upper 50th percentile of price
## 1       ETH      712.563  lower 50th percentile of price
## 2       ETH      703.512  lower 50th percentile of price
## 3       BTC    26842.600  upper 50th percentile of price
## 4       ETH      702.904  lower 50th percentile of price
```