

R Markdown Output

Last run on: 2020-12-30 06:32:11

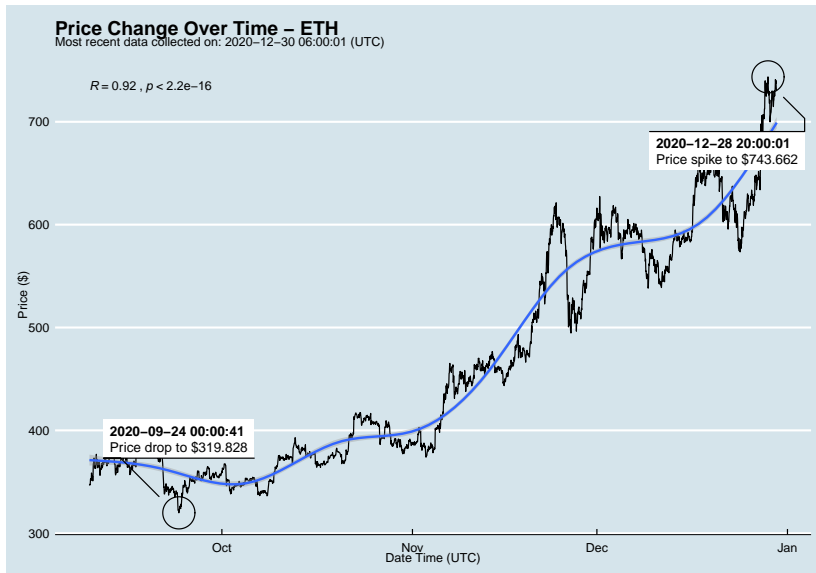
2020-12-30 06:32:11

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        730.974 2020-12-30 06:00:01
## 1      BTCUSD   BTC       27997.280 2020-12-30 06:00:00
## 2      BTCUSD   BTC       27900.070 2020-12-30 05:00:01
## 3      ETHUSD   ETH        730.353 2020-12-30 05:00:01
## 4      ETHUSD   ETH        734.020 2020-12-30 04:00:01
## ...      ...      ...           ...           ...
## 5937  BTCUSD   BTC       11972.900 2020-08-10 06:03:50
## 5938  BTCUSD   BTC       11985.890 2020-08-10 05:03:48
## 5939  BTCUSD   BTC       11997.470 2020-08-10 04:32:55
## 5940  BTCUSD   BTC       10686.880                NaT
## 5941  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'),
                                  'lower 50th percentile of price')
# Show modified dataframe:
df[['symbol', 'ask_1_price', 'price_percentile']]
```

##	symbol	ask_1_price	price_percentile
## 0	ETH	730.974	lower 50th percentile of price
## 1	BTC	27997.280	upper 50th percentile of price
## 2	BTC	27900.070	upper 50th percentile of price
## 3	ETH	730.353	lower 50th percentile of price
## 4	ETH	734.020	lower 50th percentile of price