

R Markdown Output

Last run on: 2021-03-05 06:30:12

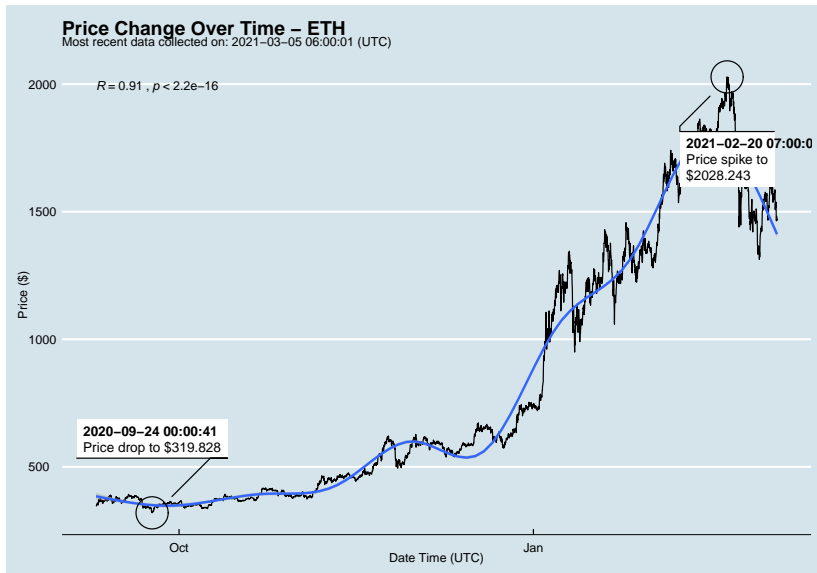
2021-03-05 06:30:12

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    47150.230 2021-03-05 06:00:01
## 1      ETHUSD   ETH     1472.467 2021-03-05 06:00:01
## 2      BTCUSD   BTC    46700.170 2021-03-05 05:00:01
## 3      ETHUSD   ETH     1465.696 2021-03-05 05:00:01
## 4      ETHUSD   ETH     1481.589 2021-03-05 04:00:01
## ...      ...      ...           ...           ...
## 9057 BTCUSD   BTC    11972.900 2020-08-10 06:03:50
## 9058 BTCUSD   BTC    11985.890 2020-08-10 05:03:48
## 9059 BTCUSD   BTC    11997.470 2020-08-10 04:32:55
## 9060 BTCUSD   BTC     10686.880                NaT
## 9061 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	BTC	47150.230	upper 50th percentile of price
## 1	ETH	1472.467	lower 50th percentile of price
## 2	BTC	46700.170	upper 50th percentile of price
## 3	ETH	1465.696	lower 50th percentile of price
## 4	ETH	1481.589	lower 50th percentile of price