R Markdown Output

Last run on: 2021-01-30 06:30:45

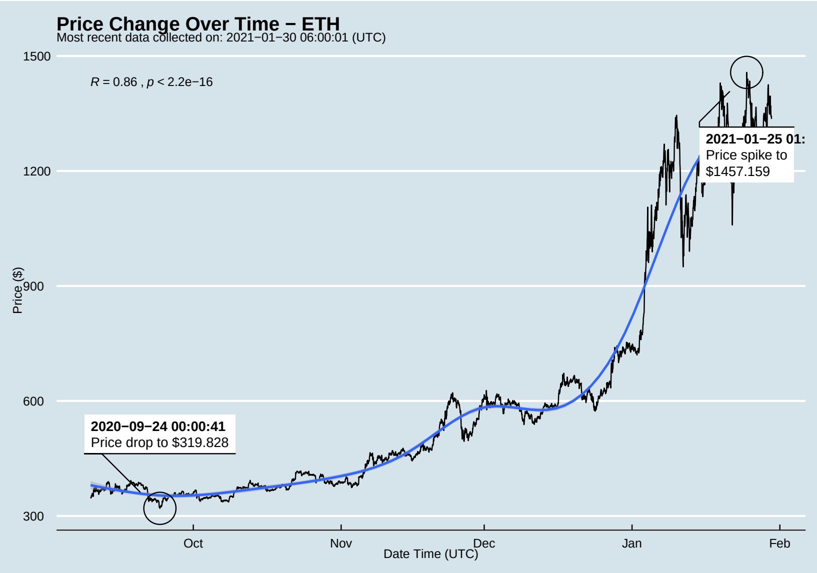
2021-01-30 06:30:45

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      ETHUSD    ETH     1335.771 2021-01-30 06:00:01
## 1      BTCUSD    BTC    33497.530 2021-01-30 06:00:00
## 2      ETHUSD    ETH     1343.364 2021-01-30 05:00:01
## 3      BTCUSD    BTC    33508.940 2021-01-30 05:00:00
## 4      BTCUSD    BTC    33280.990 2021-01-30 04:00:01
## ...       ...    ...          ...                 ...
## 7425   BTCUSD    BTC    11972.900 2020-08-10 06:03:50
## 7426   BTCUSD    BTC    11985.890 2020-08-10 05:03:48
## 7427   BTCUSD    BTC    11997.470 2020-08-10 04:32:55
## 7428   BTCUSD    BTC    10686.880                 NaT
## 7429   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       ETH     1335.771  lower 50th percentile of price
## 1       BTC    33497.530  upper 50th percentile of price
## 2       ETH     1343.364  lower 50th percentile of price
## 3       BTC    33508.940  upper 50th percentile of price
## 4       BTC    33280.990  upper 50th percentile of price
```