

R Markdown Output

Last run on: 2021-02-05 06:25:57

2021-02-05 06:25:57

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

Price Change Over Time - ETH

Most recent data collected on: 2021-02-05 06:00:01 (UTC)

$R = 0.87$, $p < 2.2e-16$



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      1631.094 2021-02-05 06:00:01
## 1      BTCUSD    BTC      37067.590 2021-02-05 06:00:00
## 2      ETHUSD    ETH      1633.357 2021-02-05 05:00:01
## 3      BTCUSD    BTC      37265.460 2021-02-05 05:00:00
## 4      ETHUSD    ETH      1639.221 2021-02-05 04:00:01
## ...      ...      ...      ...      ...
## 7713  BTCUSD    BTC      11972.900 2020-08-10 06:03:50
## 7714  BTCUSD    BTC      11985.890 2020-08-10 05:03:48
## 7715  BTCUSD    BTC      11997.470 2020-08-10 04:32:55
## 7716  BTCUSD    BTC      10686.880                NaT
## 7717  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	1631.094	lower 50th percentile of price
## 1	BTC	37067.590	upper 50th percentile of price
## 2	ETH	1633.357	lower 50th percentile of price
## 3	BTC	37265.460	upper 50th percentile of price
## 4	ETH	1639.221	lower 50th percentile of price