

R Markdown Output

Last run on: 2020-12-26 06:27:20

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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: 2020-12-26 06:00:01 (UTC)

$R = 0.92$, $p < 2.2e-16$



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        626.467 2020-12-26 06:00:01
## 1      BTCUSD    BTC       24709.520 2020-12-26 06:00:00
## 2      ETHUSD    ETH        630.094 2020-12-26 05:00:01
## 3      BTCUSD    BTC       24808.630 2020-12-26 05:00:00
## 4      BTCUSD    BTC       24903.520 2020-12-26 04:00:01
## ...      ...      ...           ...           ...
## 5745    BTCUSD    BTC       11972.900 2020-08-10 06:03:50
## 5746    BTCUSD    BTC       11985.890 2020-08-10 05:03:48
## 5747    BTCUSD    BTC       11997.470 2020-08-10 04:32:55
## 5748    BTCUSD    BTC        10686.880                NaT
## 5749    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	626.467	lower 50th percentile of price
## 1	BTC	24709.520	upper 50th percentile of price
## 2	ETH	630.094	lower 50th percentile of price
## 3	BTC	24808.630	upper 50th percentile of price
## 4	BTC	24803.520	upper 50th percentile of price