

R Markdown Output

Last run on: 2021-01-05 06:33:40

2021-01-05 06:33:40

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: 2021-01-05 06:00:01 (UTC)

$R = 0.89$, $p < 2.2e-16$



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      BTCUSD   BTC      30439.180 2021-01-05 06:00:01
## 1      ETHUSD   ETH        988.998 2021-01-05 06:00:01
## 2      ETHUSD   ETH       1003.961 2021-01-05 05:00:01
## 3      BTCUSD   BTC     30857.580 2021-01-05 05:00:00
## 4      BTCUSD   BTC     31176.000 2021-01-05 04:00:01
## ...      ...      ...           ...           ...
## 6225 BTCUSD   BTC     11972.900 2020-08-10 06:03:50
## 6226 BTCUSD   BTC     11985.890 2020-08-10 05:03:48
## 6227 BTCUSD   BTC     11997.470 2020-08-10 04:32:55
## 6228 BTCUSD   BTC     10686.880                NaT
## 6229 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_percentile
## 0	BTC	30439.180	upper 50th percentile of price
## 1	ETH	988.998	lower 50th percentile of price
## 2	ETH	1003.961	lower 50th percentile of price
## 3	BTC	30857.580	upper 50th percentile of price
## 4	BTC	31176.000	upper 50th percentile of price