

R Markdown Output

Last run on: 2020-12-22 06:29:53

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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: 2020-12-22 06:00:01 (UTC)

$R = 0.91$, $p < 2.2e-16$



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    22681.910 2020-12-22 06:00:01
## 1      ETHUSD   ETH      606.759 2020-12-22 06:00:01
## 2      ETHUSD   ETH      612.432 2020-12-22 05:00:01
## 3      BTCUSD   BTC    22952.290 2020-12-22 05:00:00
## 4      BTCUSD   BTC    22855.460 2020-12-22 04:00:01
## ...      ...      ...      ...      ...
## 5553 BTCUSD   BTC    11972.900 2020-08-10 06:03:50
## 5554 BTCUSD   BTC    11985.890 2020-08-10 05:03:48
## 5555 BTCUSD   BTC    11997.470 2020-08-10 04:32:55
## 5556 BTCUSD   BTC    10686.880                NaT
## 5557 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	22681.910	upper 50th percentile of price
## 1	ETH	606.759	lower 50th percentile of price
## 2	ETH	612.432	lower 50th percentile of price
## 3	BTC	22952.290	upper 50th percentile of price
## 4	BTC	22855.460	upper 50th percentile of price