R Markdown Output

Last run on: 2020-12-15 19:17:56

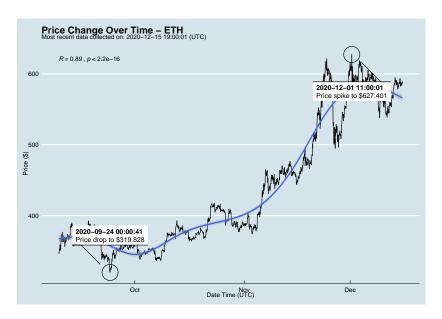
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Overview

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



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 | 19530.830 | 2020-12-15 | 19:00:01 |
| ## | 1 | ETHUSD | ETH | 589.274 | 2020-12-15 | 19:00:01 |
| ## | 2 | ETHUSD | ETH | 585.940 | 2020-12-15 | 18:00:01 |
| ## | 3 | BTCUSD | BTC | 19398.990 | 2020-12-15 | 18:00:00 |
| ## | 4 | ETHUSD | ETH | 585.514 | 2020-12-15 | 17:00:01 |
| ## | | | | | | |
| ## | 5243 | BTCUSD | BTC | 11972.900 | 2020-08-10 | 06:03:50 |
| ## | 5244 | BTCUSD | BTC | 11985.890 | 2020-08-10 | 05:03:48 |
| ## | 5245 | BTCUSD | BTC | 11997.470 | 2020-08-10 | 04:32:55 |
| ## | 5246 | BTCUSD | BTC | 10686.880 | | NaT |
| ## | 5247 | 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_] 'upper 50th percentile of price 'lower 50th percentile of price # Show modified dataframe:

df[['symbol', 'ask_1_price', 'price_percentile']] price_percenti ## symbol ask_1_price BTC 19530.830 upper 50th percentile of price ## 0

lower 50th percentile of price ## 1 ETH 589.274 ETH 585.940 lower 50th percentile of price ## 2 ## 3 BTC 19398.990 upper 50th percentile of price ## / ETI EOE E1/ larram EO+h namaan+ila af nmia