R Markdown Output

Last run on: 2021-04-25 06:14:24

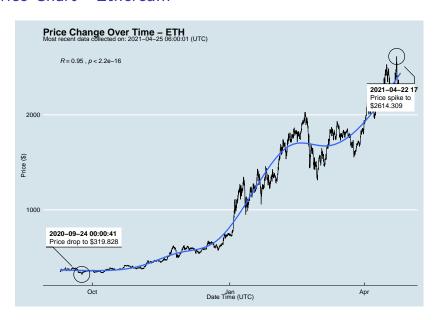
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Overview

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	$\mathtt{date_time_utc}$
##	0	ETHUSD	ETH	2201.755	2021-04-25 06:00:01
##	1	BTCUSD	BTC	49799.600	2021-04-25 06:00:00
##	2	ETHUSD	ETH	2191.395	2021-04-25 05:00:01
##	3	BTCUSD	BTC	49660.000	2021-04-25 05:00:00
##	4	ETHUSD	ETH	2187.674	2021-04-25 04:00:01
##					
##	11501	BTCUSD	BTC	11972.900	2020-08-10 06:03:50
##	11502	BTCUSD	BTC	11985.890	2020-08-10 05:03:48
##	11503	BTCUSD	BTC	11997.470	2020-08-10 04:32:55
##	11504	BTCUSD	BTC	10686.880	NaT
##	11505	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']]

```
##
         symbol
                 ask_1_price
                                              price_percent:
            ETH
                    2201.755
                              lower 50th percentile of price
## 0
                              upper 50th percentile of price
## 1
            BTC
                   49799.600
```

ETH 2191.395 lower 50th percentile of price ## 2 ## 3 BTC 49660.000 upper 50th percentile of price ## / TTT 0107 674 larram EO+h mamaan+ila af nmi