R Markdown Output

Last run on: 2021-04-05 06:13:16

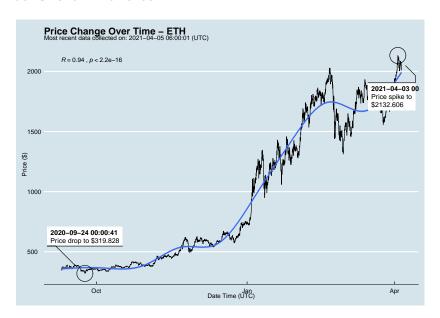
2021-04-05 06:13:16

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	2008.939	2021-04-05 06:00:01
##	1	BTCUSD	BTC	56909.750	2021-04-05 06:00:00
##	2	BTCUSD	BTC	57288.290	2021-04-05 05:00:01
##	3	ETHUSD	ETH	2022.273	2021-04-05 05:00:01
##	4	ETHUSD	ETH	2028.315	2021-04-05 04:00:01
##					• • •
##	10541	BTCUSD	BTC	11972.900	2020-08-10 06:03:50
##	10542	BTCUSD	BTC	11985.890	2020-08-10 05:03:48
##	10543	BTCUSD	BTC	11997.470	2020-08-10 04:32:55
##	10544	BTCUSD	BTC	10686.880	NaT
##	10545	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 2008.939 lower 50th percentile of price ## 0

BTC 56909.750 upper 50th percentile of price ## 1 BTC 57288.290 upper 50th percentile of price ## 2 ## 3 ETH 2022.273 lower 50th percentile of price ## / TTT 2020 215 larram EO+h mamaan+ila af nmi