### R Markdown Output

Last run on: 2020-12-24 06:31:26

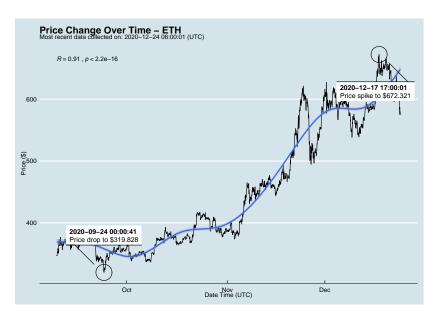
2020-12-24 06:31:26

#### 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	23050.230	2020-12-24	06:00:01
##	1	ETHUSD	ETH	579.849	2020-12-24	06:00:01
##	2	ETHUSD	ETH	578.561	2020-12-24	05:00:01
##	3	BTCUSD	BTC	23022.380	2020-12-24	05:00:00
##	4	ETHUSD	ETH	575.313	2020-12-24	04:00:01
##						
##	5649	BTCUSD	BTC	11972.900	2020-08-10	06:03:50
##	5650	BTCUSD	BTC	11985.890	2020-08-10	05:03:48
##	5651	BTCUSD	BTC	11997.470	2020-08-10	04:32:55
##	5652	BTCUSD	BTC	10686.880		NaT
##	5653	ETHUSD	ETH	357.844		NaT

# One more Python example

## /

ETI

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
                  23050.230
                             upper 50th percentile of price
## 0
```

lower 50th percentile of price ## 1 ETH 579.849 ETH 578.561 lower 50th percentile of price ## 2 ## 3 BTC 23022.380 upper 50th percentile of price

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