### R Markdown Output

Last run on: 2020-12-16 04:49:56

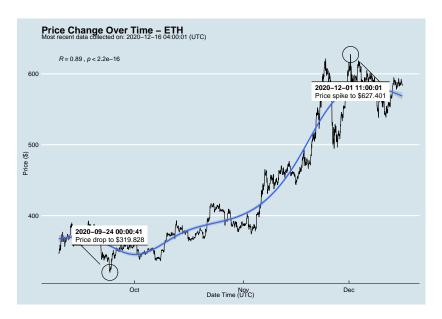
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#### Overview

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	ETHUSD	ETH	583.142	2020-12-16	04:00:01
##	1	BTCUSD	BTC	19346.120	2020-12-16	04:00:00
##	2	ETHUSD	ETH	585.586	2020-12-16	03:00:01
##	3	BTCUSD	BTC	19440.030	2020-12-16	03:00:00
##	4	ETHUSD	ETH	585.131	2020-12-16	02:00:01
##						
##	5261	BTCUSD	BTC	11972.900	2020-08-10	06:03:50
##	5262	BTCUSD	BTC	11985.890	2020-08-10	05:03:48
##	5263	BTCUSD	BTC	11997.470	2020-08-10	04:32:55
##	5264	BTCUSD	BTC	10686.880		NaT
##	5265	ETHUSD	ETH	357.844		NaT

# One more Python example

## 1

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']] ask\_1\_price price\_percenti ## symbol ETH 583.142 lower 50th percentile of price ## 0

19346.120 upper 50th percentile of price BTC ETH 585.586 lower 50th percentile of price ## 2 ## 3 BTC 19440.030 upper 50th percentile of price ## / ETI EOE 191 larram EO+h namaan+ila af nmia