### R Markdown Output

Last run on: 2021-05-04 06:13:21

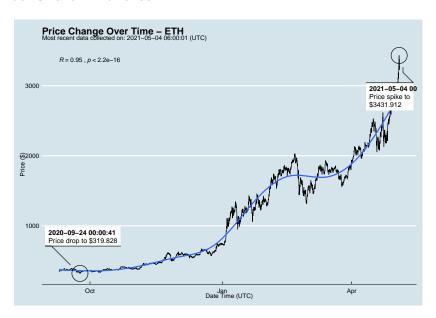
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#### Overview

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	3379.904	2021-05-04 06:00:01
##	1	BTCUSD	BTC	55999.190	2021-05-04 06:00:00
##	2	BTCUSD	BTC	55820.730	2021-05-04 05:00:01
##	3	ETHUSD	ETH	3346.473	2021-05-04 05:00:01
##	4	ETHUSD	ETH	3233.127	2021-05-04 04:00:01
##					
##	11931	BTCUSD	BTC	11972.900	2020-08-10 06:03:50
##	11932	BTCUSD	BTC	11985.890	2020-08-10 05:03:48
##	11933	BTCUSD	BTC	11997.470	2020-08-10 04:32:55
##	11934	BTCUSD	BTC	10686.880	NaT
##	11935	ETHUSD	ETH	357.844	NaT

# One more Python example

## 3

## /

ETH

TTT

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 3379.904 lower 50th percentile of price ## 0 BTC 55999.190 upper 50th percentile of price ## 1 BTC 55820.730 upper 50th percentile of price ## 2

lower 50th percentile of price

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3346.473

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