## R Markdown Output

## 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

## 10976

BTCUSD

```
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
          BTCUSD
                    BTC
                            64030.000 2021-04-14 06:00:01
## 1
          ETHUSD
                    ETH
                             2362.220 2021-04-14 06:00:01
## 2
          ETHUSD
                    ETH
                             2371.821 2021-04-14 05:00:01
          BTCUSD
                    BTC
                            64259.700 2021-04-14 05:00:00
## 3
          ETHUSD
                    ETH
                             2347.038 2021-04-14 04:00:01
## 4
## ...
                     . . .
## 10973
          BTCUSD
                            11972.900 2020-08-10 06:03:50
                    BTC
## 10974
          BTCUSD
                    BTC
                            11985.890 2020-08-10 05:03:48
                            11997.470 2020-08-10 04:32:55
## 10975
          BTCUSD
                    BTC
```

10686.880

NaT

BTC

```
## 10977 ETHUSD
                    ETH
                              357.844
                                                       NaT
##
## [10978 rows x 4 columns]
```

## 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_price'], 50),
                            'upper 50th percentile of prices',
                            'lower 50th percentile of prices')
# Show modified dataframe:
df[['symbol', 'ask_1_price', 'price_percentile']]
##
         symbol
                ask_1_price
                                             price_percentile
## O
           BTC
                   64030.000
                             upper 50th percentile of prices
                              lower 50th percentile of prices
## 1
            ETH
                    2362.220
                    2371.821
                              lower 50th percentile of prices
## 2
            ETH
                              upper 50th percentile of prices
## 3
           BTC
                   64259.700
## 4
            ETH
                    2347.038
                              lower 50th percentile of prices
## ...
## 10973
                   11972.900
                              upper 50th percentile of prices
           BTC
## 10974
                              upper 50th percentile of prices
            BTC
                   11985.890
## 10975
           BTC
                   11997.470
                              upper 50th percentile of prices
## 10976
                   10686.880
                              upper 50th percentile of prices
            BTC
## 10977
            ETH
                     357.844 lower 50th percentile of prices
##
## [10978 rows x 3 columns]
```