



Group members are placed by alphabet.



BitProphet

---- A Project for Bitcoin Prediction

Name ID

An aerial photograph of a university campus, likely the Chinese University of Hong Kong, featuring a prominent curved building and a large bay in the background. The image is overlaid with a semi-transparent dark blue filter.

01

PART ONE
Background

Bitcoin

A fixed number -- 210M



Bitcoin

Trade without a third-party



Bitcoin Prediction

Why?

- Prices are strongly influenced by fluctuations in demand
- An essential part of **WEB 3.0**
- Finding the fluctuations of economics

WEB 3.0: meta universe, blockchains, cryptocurrencies, and NFTs.





02

PART TWO

Data Intro

Bitcoin Datasets



THE DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING
計算機科學及工程學系

Unix_Timestamp	DateTime	Open	High	Low	Close	Volume_(BTC)	Volume_(Currency)	Weighted_Price
1325317920	12/31/2011 07:52:00	4.39	4.39	4.39	4.39	0.455581	2	4.39
1325346600	12/31/2011 15:50:00	4.39	4.39	4.39	4.39	48	210.72	4.39
1325350740	12/31/2011 16:59:00	4.5	4.57	4.5	4.57	37.8623	171.3803	4.526411
1325350800	12/31/2011 17:00:00	4.58	4.58	4.58	4.58	9	41.22	4.58
1325391360	01/01/2012 04:16:00	4.58	4.58	4.58	4.58	1.502	6.87916	4.58
1325431680	01/01/2012 15:28:00	4.84	4.84	4.84	4.84	10	48.4	4.84
1325457900	01/01/2012 22:45:00	5	5	5	5	10.1	50.5	5
1325534640	01/02/2012 20:04:00	5	5	5	5	19.048	95.24	5
1325591100	01/03/2012 11:45:00	5.32	5.32	5.32	5.32	2.419173	12.87	5.32
1325600520	01/03/2012 14:22:00	5.14	5.14	5.14	5.14	0.68	3.4952	5.14

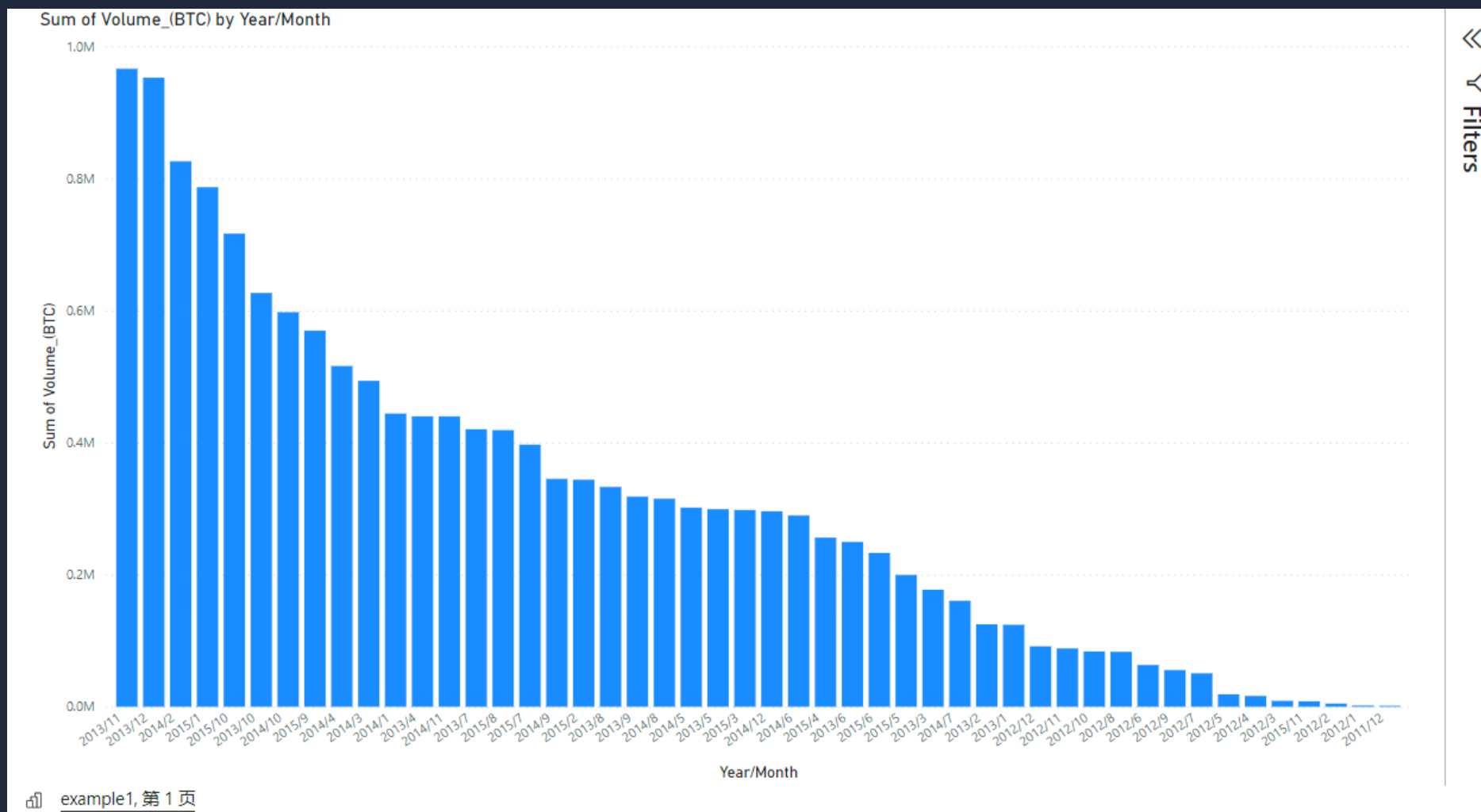
Background

Data Intro

Plans

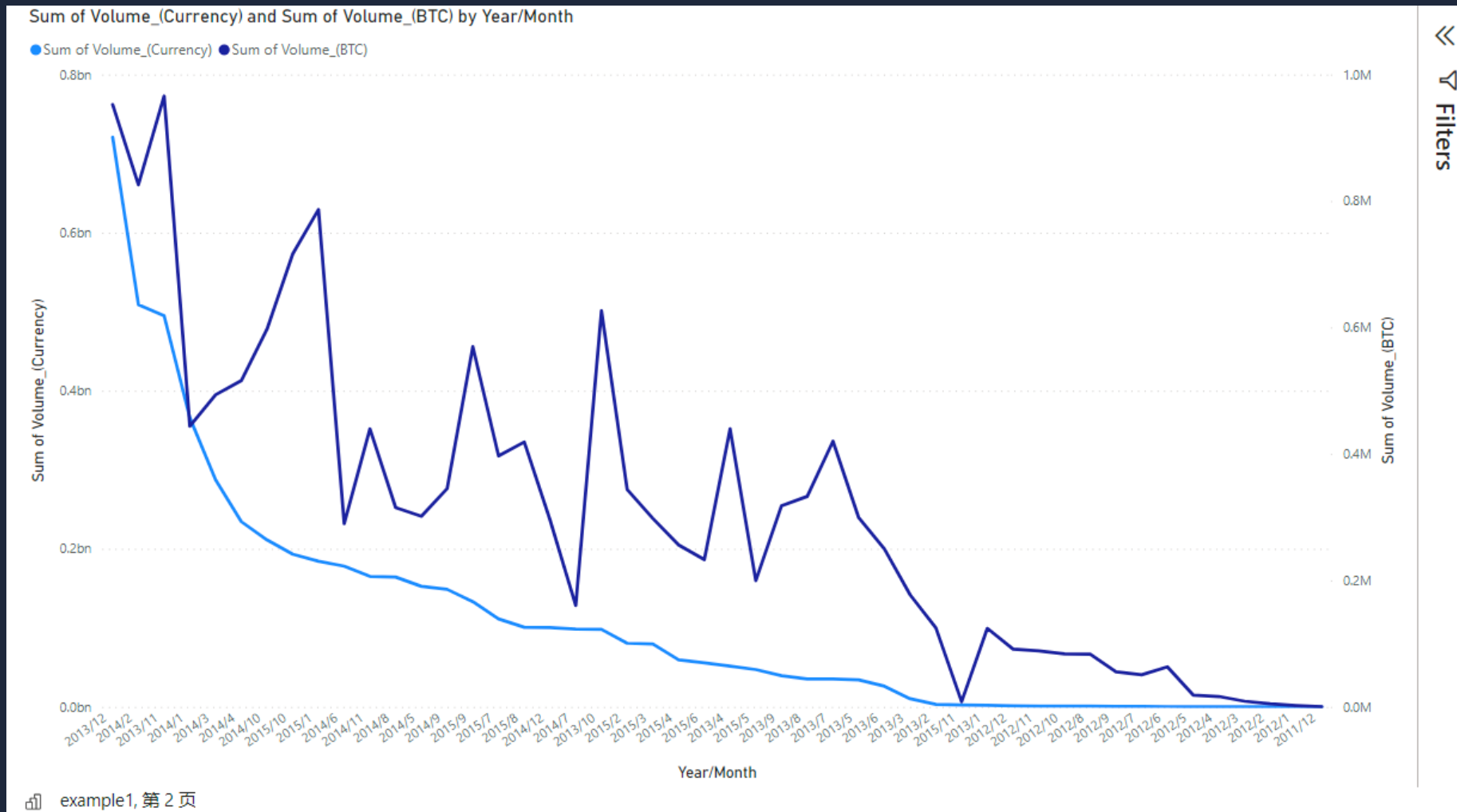


Bitcoin Datasets





Bitcoin Datasets



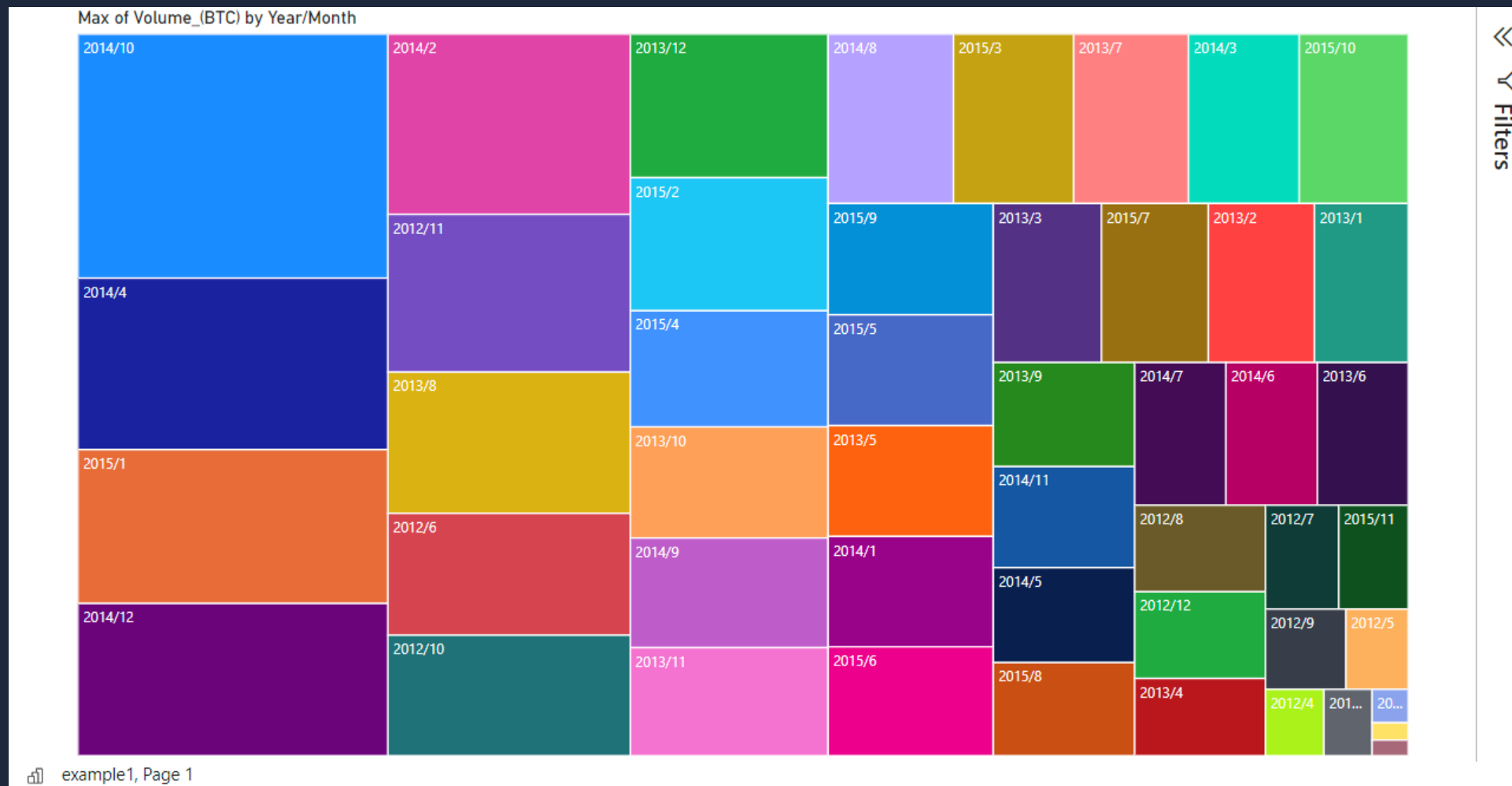
Background

Data Intro

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Bitcoin Datasets



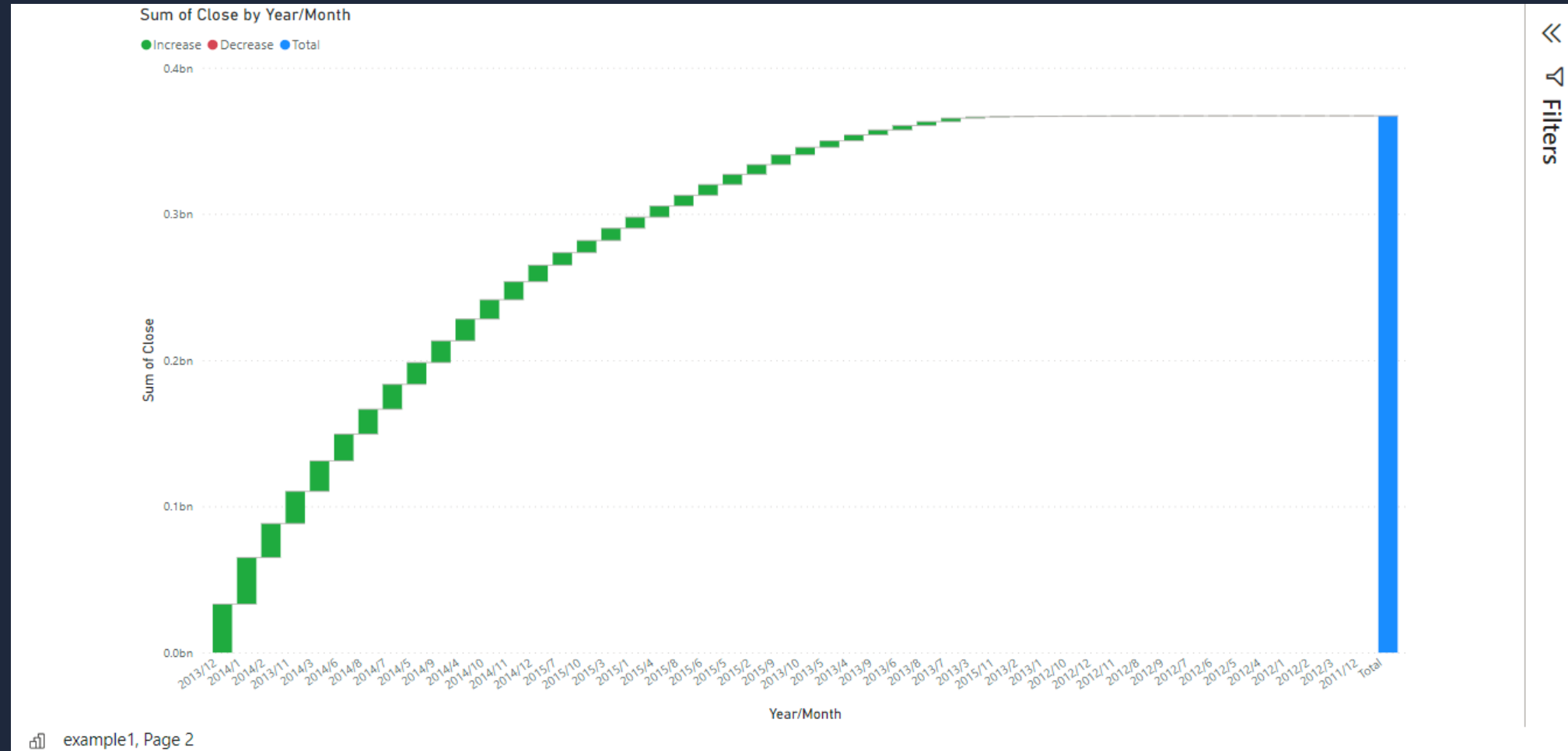
Background

Data Intro

Plans



Bitcoin Datasets





Key Points

- How to remove or deal with these NaNs?
- Which model should we choose to get the best prediction results?
- What can we use for training our model except the data? Any external features?
- How to find external features?
- How to evaluate the external features?

An architectural rendering of a modern building complex. The main building is a long, curved structure with multiple floors of large glass windows and a flat roof with greenery. In the foreground, there is a large, curved pond. In the center of the pond, there is a circular platform with a large, red, abstract sculpture. People are walking on the paths and standing on the platform. The sky is blue with some clouds and birds flying. The overall scene is a modern, urban environment.

03

PART THREE
Plans



Models

123



THANK YOU

BitProphet

