



Predicting Cryptocurrency Behavior

DMBI 2019 @ BGU

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<https://accrypto.io>

WHO WE ARE

Data-science epicenter for digital-assets which provides institutions customized tools for generating data-driven financial decisions, faster and cheaper.

Our customers focus on the familiar analysis and execution part, skipping the endless work of identifying, acquiring, and processing fragmented data.

MOTIVATION

With over 2000 digital-assets, a constantly changing market, an endless amount of data sources and a revolutionary database infrastructure, it is a clear challenge for institutions to find, process and track features for generating financial data-driven decisions.



24/7
GLOBAL MARKET



AMOUNT OF UNIQUE
DATA & SOURCES



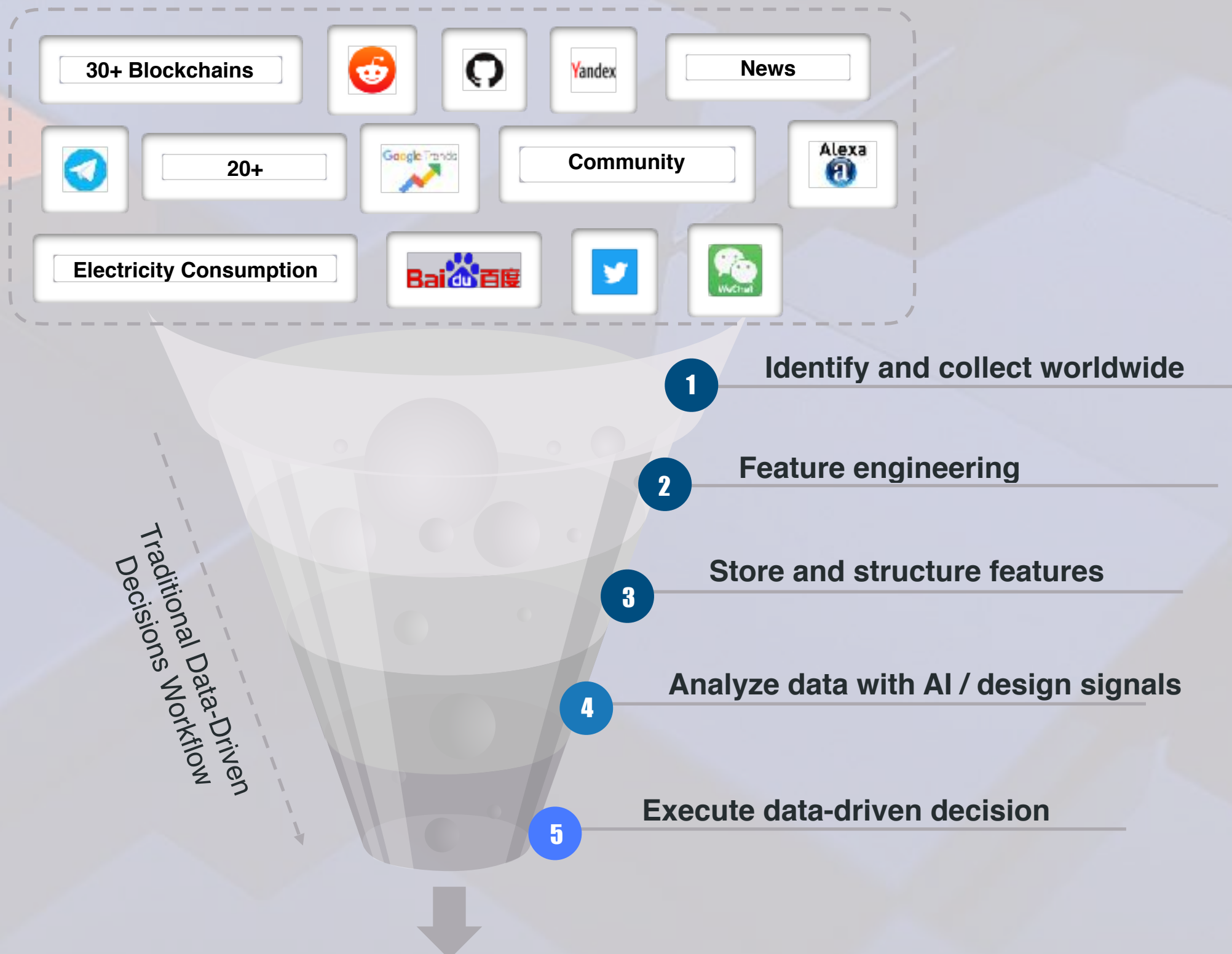
DIVERSIFIED
BLOCKCHAINS



MARKET IN
THE MAKING

WHAT WE DO

Data-science and predictions as a service for generating data-driven decisions in the digital-assets space



Data-Science Service (Steps 1-3)

Streaming features of 3 profiles:

- Blockchain Address
- Digital Asset
- Market

Prediction Services (Step 4)

Predicting various future behaviors, of the profiles mentioned above, with customized AI models.

DATA STRUCTURE

Technical Info

Amount of data-sets and headers (columns):

8,994

Amount of data points for each asset (rows):

17,520

Cryptocurrencies assets:

BTC

Time Frame:

1/1/17 - 1/1/19

Data Frequency:

Hourly

Data Sets Legend

Column Name	Column Description
coin_symbol	Cryptocurrency symbol (e.x BTC, ETH, LTC)
created_utc	The UTC time which the data was gathered at.
GROUP_NAME-ID	The data set name separated by'-' with the ID.

Group Name	Description
Individual / Global Exposure	The exposure of the market as a whole as well for specifics Cryptocurrencies is constructed of: <ul style="list-style-type: none">Traffic for official and related websites and forums, for example: on chain apps, wallets, large contributors, etc.Web searches for direct and related keywords.
Individual Blockchain	Measuring blockchain for each Cryptocurrency in two aspects: <ul style="list-style-type: none">Infrastructure - tx, blocks, addresses, etc.Network - inner relations, mining profitability, etc.
Individual Market	Market parameters such as volume, low price and high price from leading exchanges.
Individual Technology	R&D measurements (traffic, contributors, commits, etc) from official and related repositories.
Individual / Global Social	Processing the social sentiment, of the market as a whole as well for specifics, trough social media, forums and news of direct and related channels and topics.

POTENTIAL TARGET FUNCTION

Technical Info

Amount of data-sets and headers (columns):

4

Amount of data points for each asset (rows):

110,426

Cryptocurrencies assets:

BTC

Time Frame:

1/1/17 - 1/1/19

Data Sets Tables

Column Name	Column Description
coin_symbol	Cryptocurrency symbol (e.x BTC, ETH, LTC)
created_utc	The UTC time which the Block was added to the Blockchain
Number of Transaction	Number of tx's (transactions) in a Block
Fees	Total amount of fees paid in a Block

Amount of data-sets and headers (columns):

4

Amount of data points for each asset (rows):

17,521


Cryptocurrencies assets:

BTC

Time Frame:

1/1/17 - 1/1/19

Column Name	Column Description
coin_symbol	Cryptocurrency symbol (e.x BTC, ETH, LTC)
created_utc	The hourly UTC time which the data was gathered at .
Price	The price of a Cryptocurrency for a given time
Volume	The volume of a Cryptocurrency for a given time



See you in DMBI 2019 @ BGU
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Thanks and Good Luck, ACC Team.