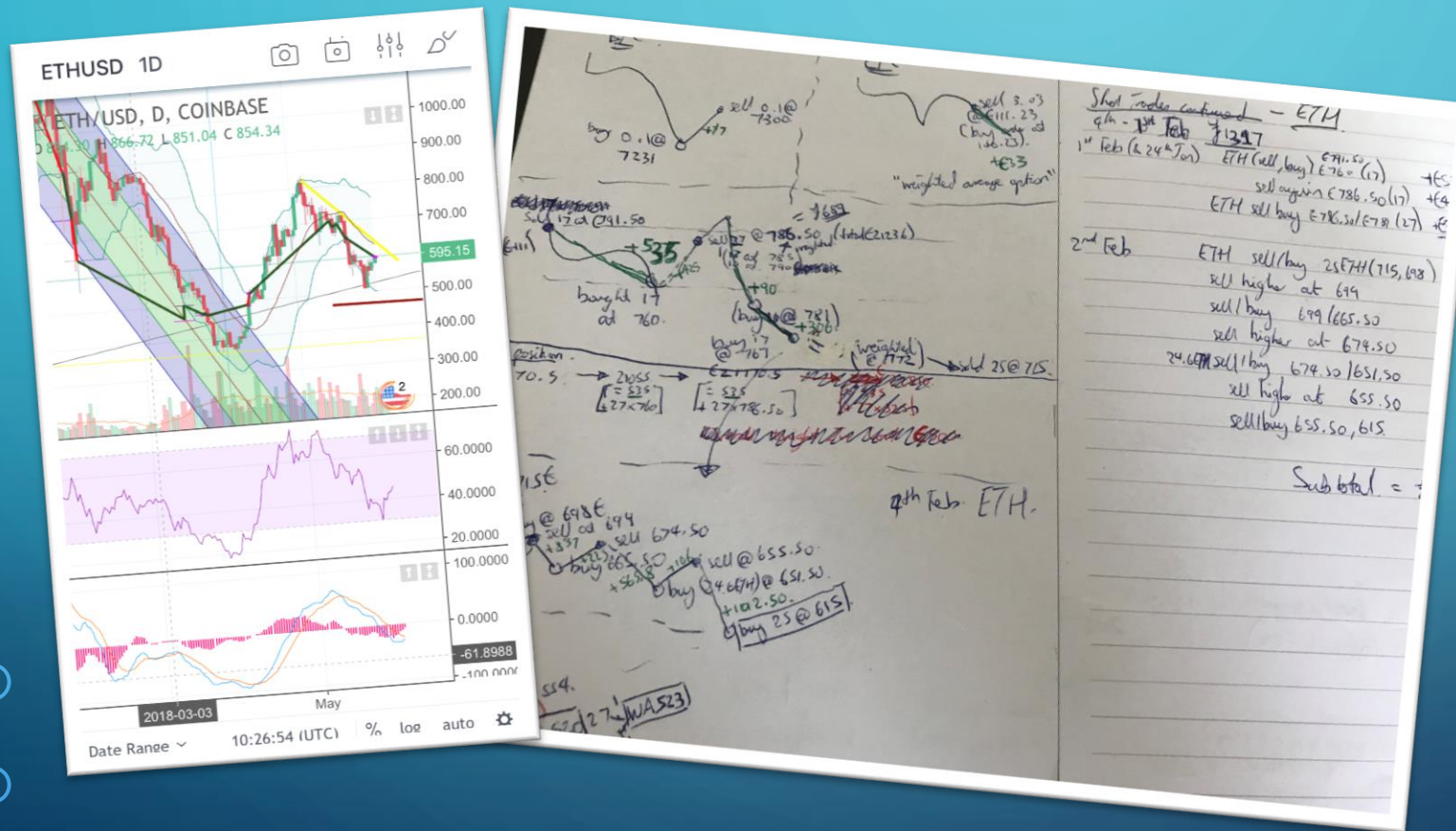


# CRYPTOCURRENCY TRADING – TRACKING AND DECISION SUPPORT

TYRONE HUNT



# WHAT'S THE PROBLEM?



- Unknown ROI
- Risk exposure not properly understood
- Data in multiple places
- Time consuming

# THE OBJECTIVE

## SCOPE IS...

- ✓ Calculate BTC balances, ROI and performance against baseline scenarios
- ✓ Investigate which common trading signals are significant and in what scenarios

## SCOPE IS NOT...

- ✗ All cryptocurrencies
- ✗ A full trading strategy
- ✗ Trade advice! (*pretty sure I need that in for legal reasons*)

## FOR EXAMPLE:

Trade Signal	1h	4h	1d	1w
RSI	}	<b>Complicated by:</b> <ul style="list-style-type: none"><li>• Combinations</li><li>• Variations</li><li>• Significance of trigger</li><li>• Interpretations</li><li>• Non-algorithmic affects</li></ul>		
MACD				
EMA				
VOLUME				
BOLLINGER B.				

# DATA AND ANALYSIS

BTC Price / Volume

	A	B	C
1	1429753354	300	0.01
2	1429766376	200	0.01
3	1429831674	220	0.01
4	1429841387	220	0.01
5	1430156722	205.27	0.0353
6	1430156722	205.27	0.0647
7	1430156880	205.33	0.1
8	1430159153	205.34	0.01
9	1430177802	209.47	0.01426
10	1430192991	209.19	0.0222
11	1430192991	209.11	0.0485
12	1430192991	209.1	0.0293
13	1430193080	209.53	0.099
14	1430220205	209.03	0.1
15	1430252864	204.48	0.01
16	1430261840	204.9	0.3568
17	1430261840	204.87	0.1676

Coinbase / GDAX Trades

	A	B	C	D	E	F	G	H
1	TIMESTAMP	ACCOUNT N°	TYPE	BALANCE	AMOUNT	CURRENCY	EQUIV USD	ID
2	2017-12-14T	BTC	transfer	0.00504563	0.0007	BTC	11.745972	511252853
3	2017-12-14T	EUR	match	25771.876	9.8378	EUR	11.583599	511282382
4	2017-12-14T	BTC	match	0.00504563	-0.0007	BTC	-11.745972	511282375
5	2017-12-14T	EUR	match	25771.876	-9.8343	EUR	-11.579478	511412098
6	2017-12-14T	BTC	match	0.00504563	0.0007	BTC	11.745972	511412097
7	2017-12-19T	BTC	transfer	0.00504563	-0.0007	BTC	-12.90611	539737474
8	2017-12-19T	BTC	transfer	0.00504563	0.01	BTC	184.373	541777655
9	2017-12-19T	EUR	match	25771.876	148.7	EUR	176.035913	541888596
10	2017-12-19T	BTC	match	0.00504563	-0.01	BTC	-184.373	541888585
11	2017-12-19T	EUR	match	25771.876	-147.5	EUR	-174.61531	541977155
12	2017-12-19T	BTC	match	0.00504563	0.01	BTC	184.373	541977154
13	2017-12-19T	EUR	match	25771.876	148	EUR	175.20723	542137862
14	2017-12-19T	BTC	match	0.00504563	-0.01	BTC	-184.373	542137853
15	2017-12-19T	EUR	match	25771.876	-147	EUR	-174.0234	542181434
16	2017-12-19T	BTC	match	0.00504563	0.01	BTC	184.373	542181433

	A	B	C	D	E	F	G	H	I
1	Timestamp	Balance	Amount	Transfer Tot:	Transfer Tot:	Transfer Fee	Transfer Pay	Transfer ID	Coinbase I
2	05/05/2017 11:06	0.001	0.001						590cbf423
3	05/05/2017 11:10	0.8312	0.8302						590cc0013
4	06/05/2017 09:54	1.65606901	0.82486901						590dffaf75
5	07/05/2017 02:27	1.24046901	-0.4156						590ee8658
6	23/05/2017 15:09	1.69496901	0.4545						5924b304c
7	23/05/2017 15:23	1.58676901	-0.1082						5924b67ef
8	23/05/2017 15:24	1.47856901	-0.1082						5924b688c
9	27/05/2017 05:57	1.58676901	0.1082						592977a2f
10	28/05/2017 01:17	1.0294059	-0.5573631	985.1 GBP		14.9 GBP Wallet	592a87a4cdf	592a87a6c	
11	28/05/2017 08:38	1.59203981	0.56263391	984.45 GBP		14.45 GBP Wallet	592aeee49c	592aeeeb1	
12	04/06/2017 09:24	1.59392183	0.00188202	5.25 EUR		0.99 EUR Wallet	593434472c	59343451f	

1. Clean / classify / merge trade and price data
2. Calculate trade indicators
3. Run statistical inference tests
4. Run back-test simulations based on proposed trade rules



# CUSTOMER IDENTIFICATION FOR PROPERTY SERVICES START-UP

TYRONE HUNT



# OVERVIEW

Startup has a value proposition that aims to provide better service to share-of-freehold companies. This means it needs to identify potential customers...

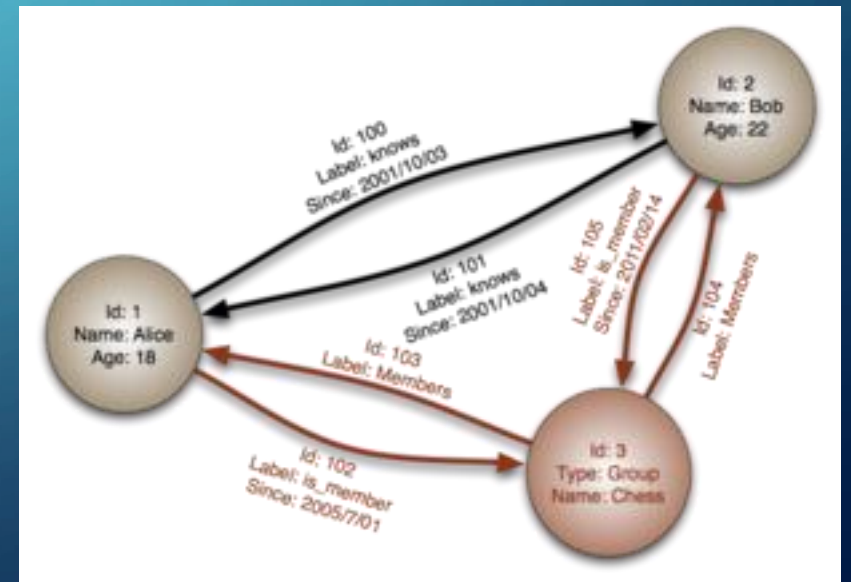
Can we use data science to scrape 'Companies House' data and filter according to rules?

The screenshot shows the Companies House website interface. At the top, there's a search bar with the text "Search for a company or officer". Below it, the company name "CLERKENWELL GREEN PROPERTY MANAGEMENT LIMITED" is displayed in a large, bold font, with a green dashed box around it. Underneath the name, the company number "01472312" is shown. There are two buttons: "Follow this company" and "File for this company". Below these, there are tabs for "Overview", "Filing history", "People", and "Charges". The "People" tab is selected, and under it, there are sub-tabs for "Officers" and "Persons with significant control". The "Officers" sub-tab is active. Below the sub-tabs, there's a section titled "Filter officers" with a checkbox for "Current officers". At the bottom, a green dashed box contains the text "7 officers / 4 resignations".

The screenshot shows a detailed view of officer information. It lists two officers: SHANE, Yvonne Winifred and SHANE, Emmanuel Emil. For each officer, the following information is provided: Correspondence address (6 Mornington Terrace, London, NW1 7RR), Role (RESIGNED), Resigned on (25 May 2005 for Yvonne, 6 November 1999 for Emmanuel), Date of birth (February 1912 for Emmanuel), and Nationality (British). The occupation for Emmanuel is listed as "Company Director - Civil Engineer". The names and addresses are highlighted with blue dashed boxes, and the roles and resignation dates are highlighted with purple dashed boxes. The occupation is highlighted with a yellow dashed box.

# DATA CATEGORISATION FOR GRAPHICAL DATABASE START-UP

TYRONE HUNT



Startup has a value proposition that uses machine learning and graph databases to make it easy for journalists and civil servants to quickly discover important information

Can we automatically categorise data to reduce manual cleaning effort required?

[illegible]