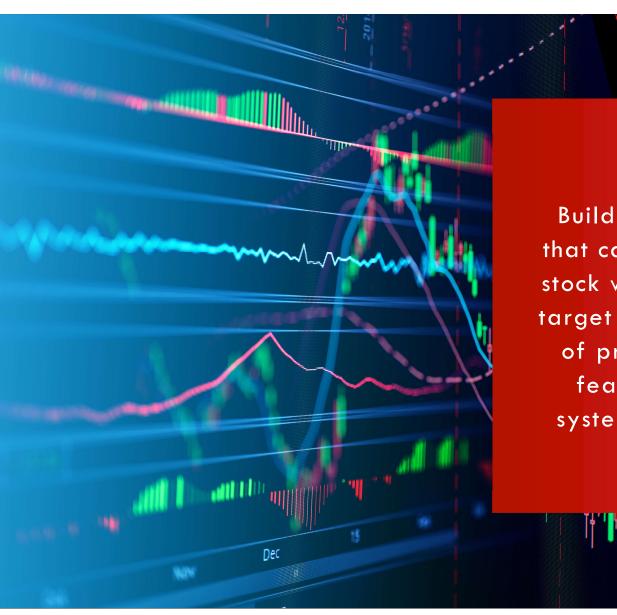


A deep dive into a trading system simply known as:

'The Strat'

By: Jason Palumbo





GOAL

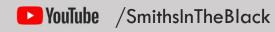
Build a classification model
that can correctly predict if a
stock will hit a predetermined
target price based on a series
of proprietary engineered
features using a trading
system known simply as The
Strat



BACKGROUND

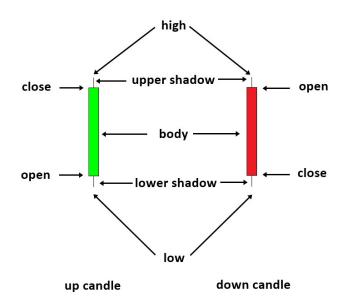






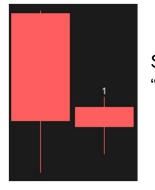


ANATOMY OF A CANDLESTICK

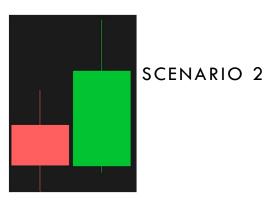




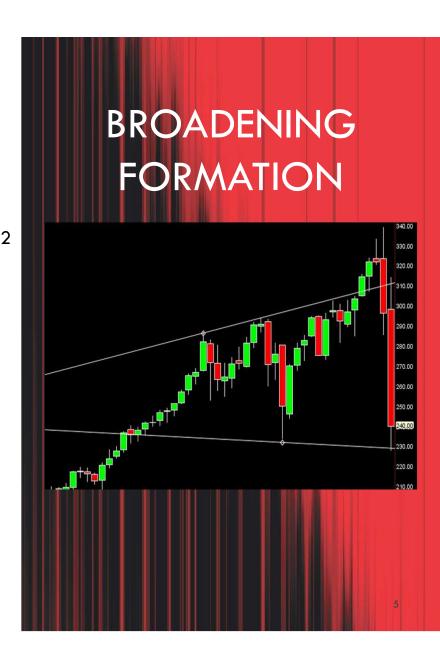
THE SCENARIOS



SCENARIO 1
"INSIDE BAR"



SCENARIO 3
"OUTSIDE BAR"





AKA "PMG"

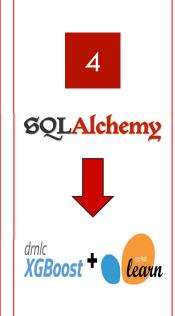


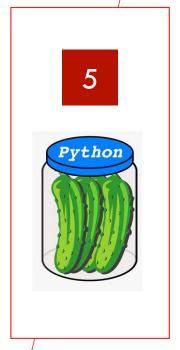
PIPELINE











ONE SQL DATABASE ROW = AN INSTANCE OF SUCCESS OR FAILURE

MODELS TRAINED

XG BOOST

Accuracy: .751 | ROC AUC: .727

RANDOM FOREST

Accuracy: .742 | ROC AUC: .732

SUPPORT VECTOR MACHINE

Accuracy: .738

LOGISTIC REGRESSION

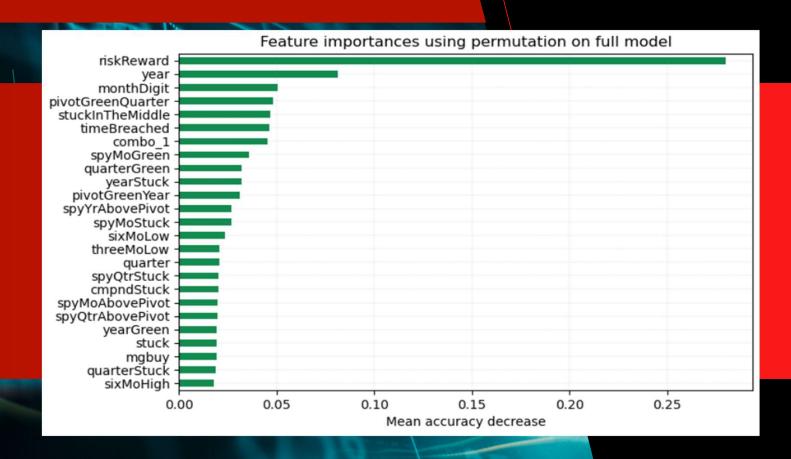
Accuracy: .732

GAUSSIAN NAÏVE BAYES

Accuracy: .629



FEATURE IMPORTANCE



RESULTS

		TICKER	СОМВО	PREDICTION	% CAPTURED	HIT TARGET	MONEY MADE
	1	TGLS	1	.996	5.1%	1	\$255
	2	HLIT	1	.996	6.35%	1	\$317.5
	3	OCGN	1	.996	6.9%	1	\$345
4	4	TDUP	1	.994	7%	0	0
	5	RUN	1	.994	12.7%	1	\$635

THIS MODEL PRODUCED A .80 ACCURACY ON THE NEW UNSEN DATA!



CONCLUSION & IMPACT

- MORE WORK TO BE DONE
- FEATURE: RISK/REWARD
 - SEEMS COUNTERINTUITIVE
 - COMFORTABLE SELLERS BECOME PANICKED BUYERS
- GROUDWORK HAS BEEN SET
- SEEMS VIABLE IN THE WILD



FUTURE WORK

- BETTER FEATURE ENGINEERING
- PARALLEL COMPUTING
- RISK CONTROL



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