Startup Success

Mining opportunity in the uncertainness of the tech sector.

Optimizing for Success

As a CEO, what can I do to ensure my business successfully exits?

The Dataset

Data is a snapshot of San Francisco based startups founded after 2009.



98.04% precision

97.81% precision

XGBoost Classifier

Random Forest Classifier

Looking Deeper

Extracting insights from ML Classifiers.

Random Forest Feature Importance:

Total Funding Amount	53.6%
Number of Investors	6.2%
Days Since Founded	3.7%

Logistic Regression Coefficients:

Total Funding Amount	2.99 x 10 ⁻⁰⁸
Number of Investors	-7.09 x 10 ⁻¹²
Days Since Founded	-2.53 x 10 ⁻⁰⁹

"Valuations are inflating, leading some people to worry that investment decisions are being guided by something venture capitalists call FOMO —the fear of missing out."

The New York Times

FOMO is Real

How to incite FOMO:

or how to Elizabeth Holmes your way to success







Shorten your timeline



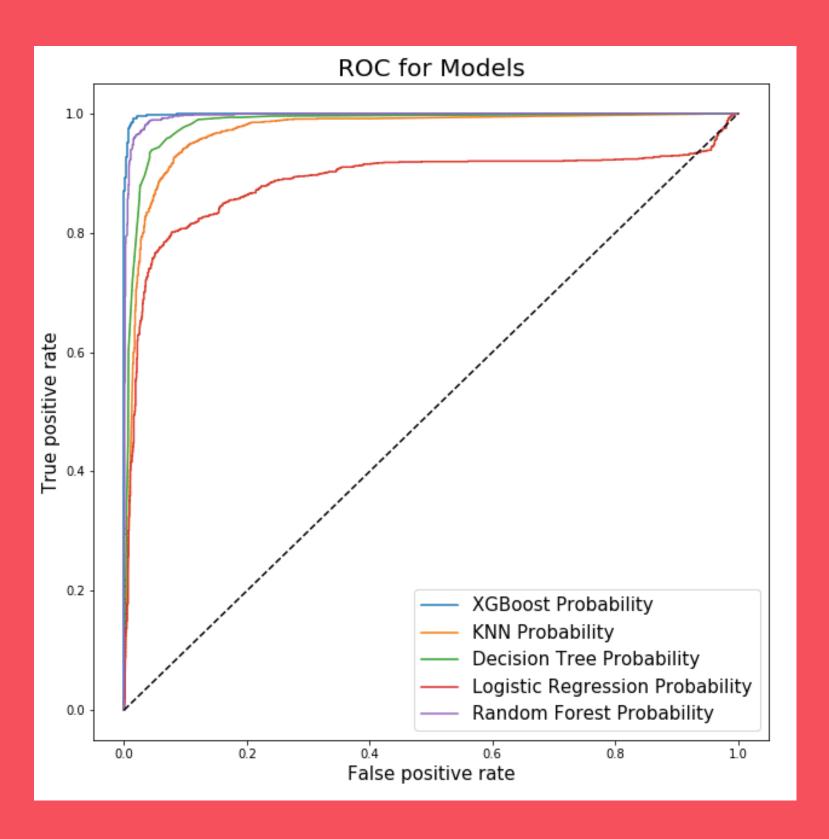
Max funding per round

FOMO is Real

Appendix

- http://home.uchicago.edu/~buchak/papers/fomo.pdf
- https://mentorphile.com/2019/06/19/why-raise-money-now/
- https://techcrunch.com/2019/05/29/fundraising-101-how-to-trigger-fomo-among-vcs/
- https://www.nytimes.com/2015/05/23/technology/overvalued-in-silicon-valley-but-not-the-word-that-must-not-be-uttered.html

Appendix



Randomized Search Params

Appendix

Random Forest Feature Importance

total_funding_amount	0.536139
advertising	0.073845
number_of_investors	0.061834
days_since_founded	0.037323
software	0.034311
information_technology	0.030977
biotechnology	0.030810
number_of_lead_investors	0.023072
health_care	0.021152

days_since_last_funding	0.019810
last_funding_amount	0.019093
data_and_analytics	0.017487
number_of_founders	0.011200
education	0.010492
mobile	0.008526
hardware	0.006794

consumer_electronics	0.002910
consumer_goods	0.002776
real_estate	0.002636
energy	0.002399
commerce_and_shopping	0.002055
media_and_entertainment	0.001757
messaging_and_telecommunications	0.001717
payments	0.001677

content_and_publishing	0.000973
gaming	0.000822
community_and_lifestyle	0.000755
music_and_audio	0.000714
transportation	0.000674
privacy_and_security	0.000506
government_and_military	0.000506

sustainability	0.000497
design	0.000496
events	0.000406
sales_and_marketing	0.000382
agriculture_and_farming	0.000366
sports	0.000359
platforms	0.000356
navigation_and_mapping	0.000274

food_and_beverage	0.000244
professional_services	0.000203
administrative_services	0.000000
clothing_and_apparel	0.000000
natural_resources	0.000000