

Impact of initial factors on startup survival

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	name	market	<pre>funding_total_usd</pre>	status	country_code	city	funding_rounds	founded_year	first_funding_at	<pre>last_funding_at</pre>	seed	raised_funds
0	#waywire	News	1750000.0	1	USA	New York	1	2012	2012-06-30	2012-06-30	1750000.0	0.0
2	'Rock' Your Paper	Publishing	40000.0	1	EST	Tallinn	1	2012	2012-08-09	2012-08-09	40000.0	0.0
3	(In)Touch Network	Electronics	1500000.0	1	GBR	London	1	2011	2011-04-01	2011-04-01	1500000.0	0.0
4	-R- Ranch and Mine	Tourism	60000.0	1	USA	Fort Worth	2	2014	2014-08-17	2014-09-26	0.0	60000.0

Source:

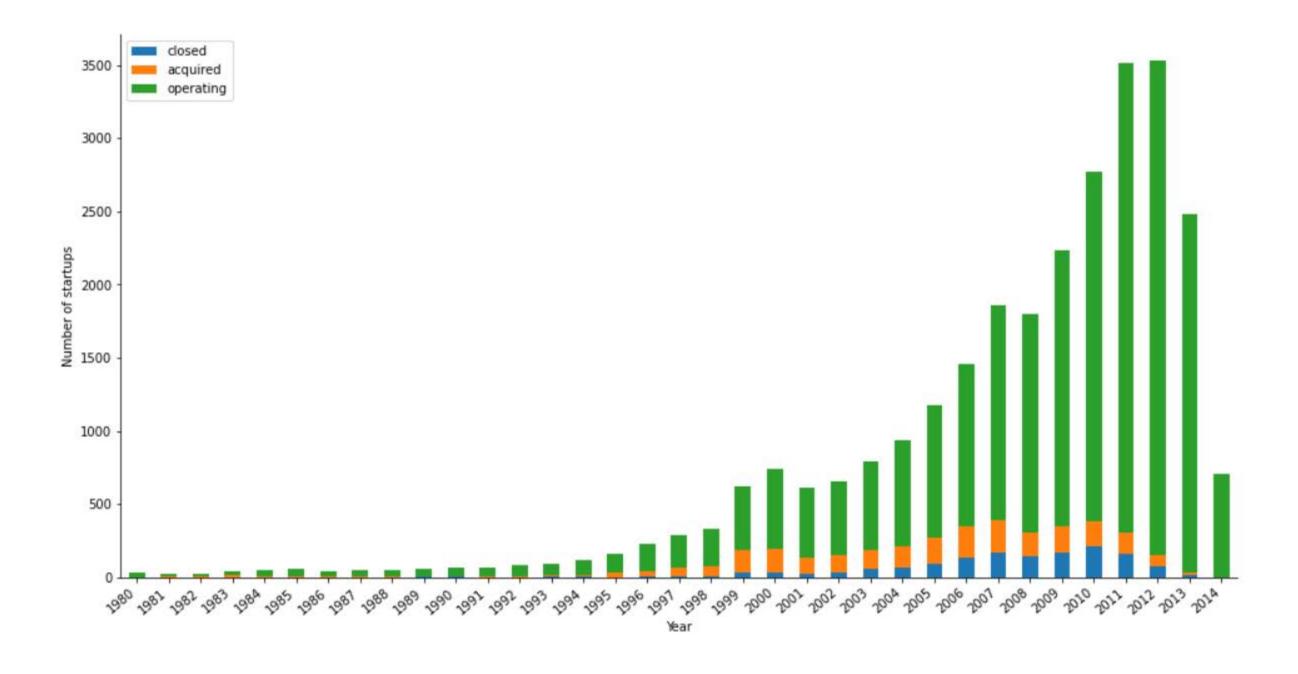
https://www.kaggle.com/arindam235/startup-investments-crunchbase

Problem Statement:

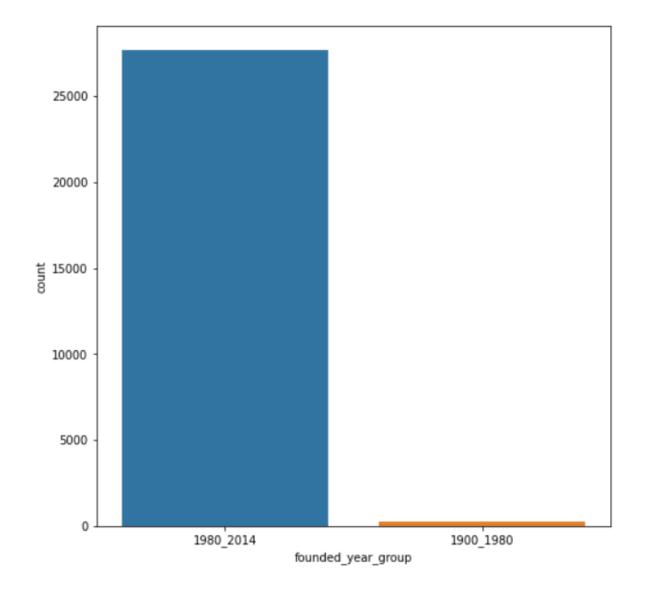
Analyzehistorical data on startupsto get insights.

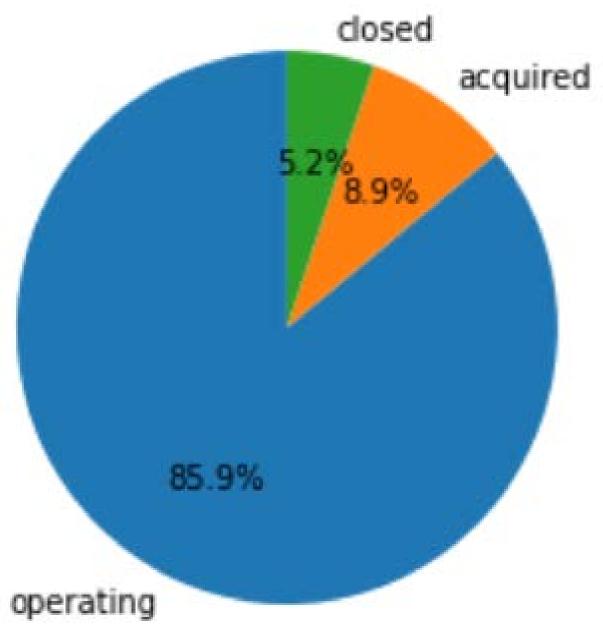
Canwe predict startups survival based on initial factors?

Startups growth over the Years





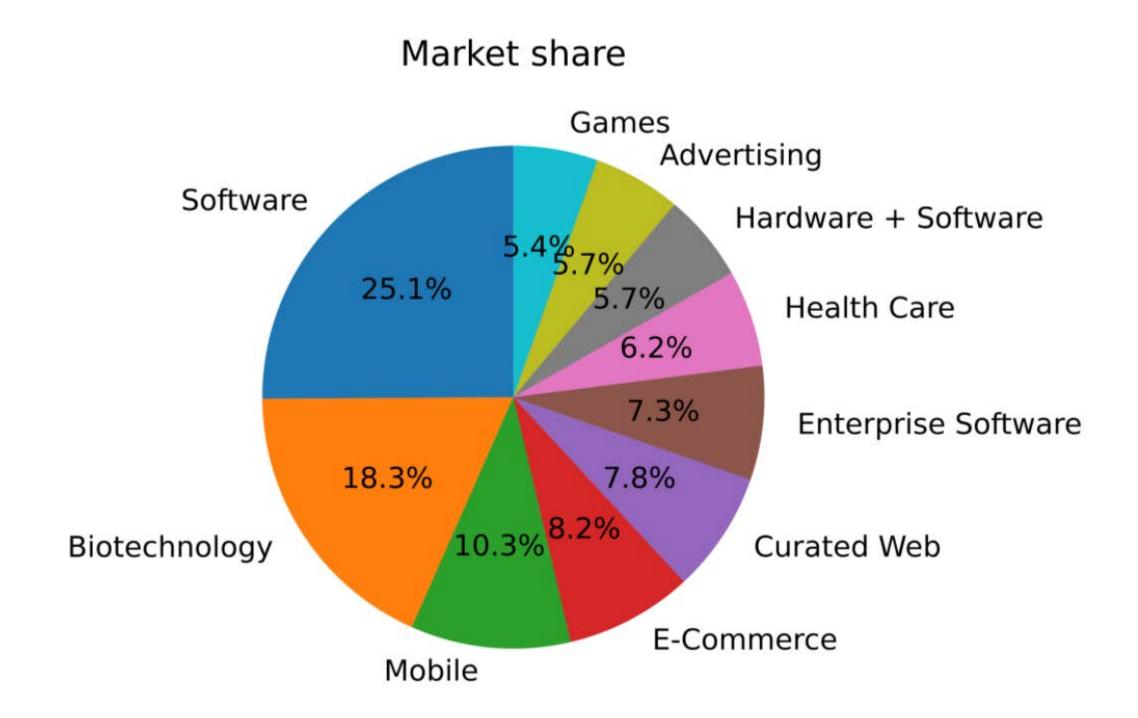


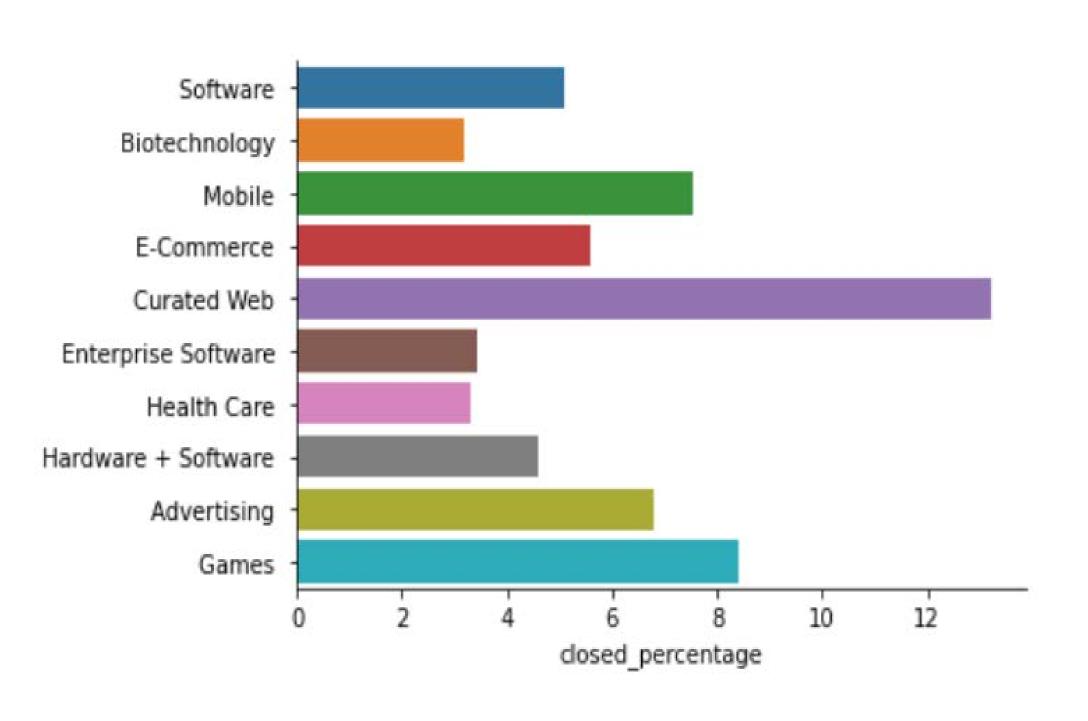


Top 10 Markets

Percentage of closed startups

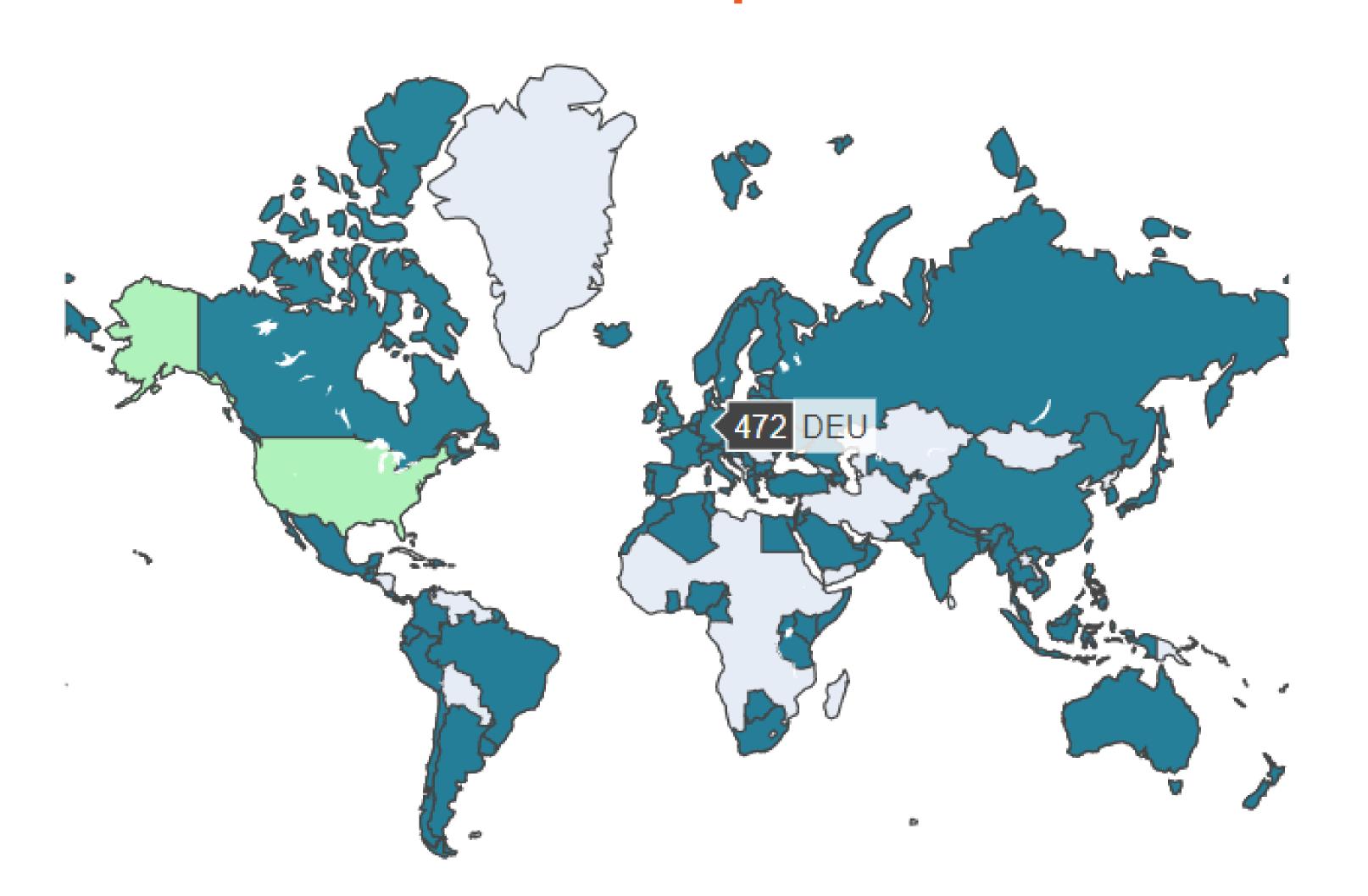


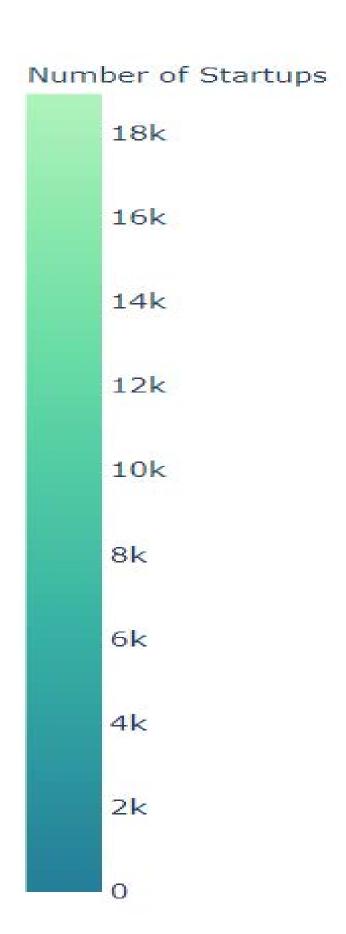




Gobal distribution of startups

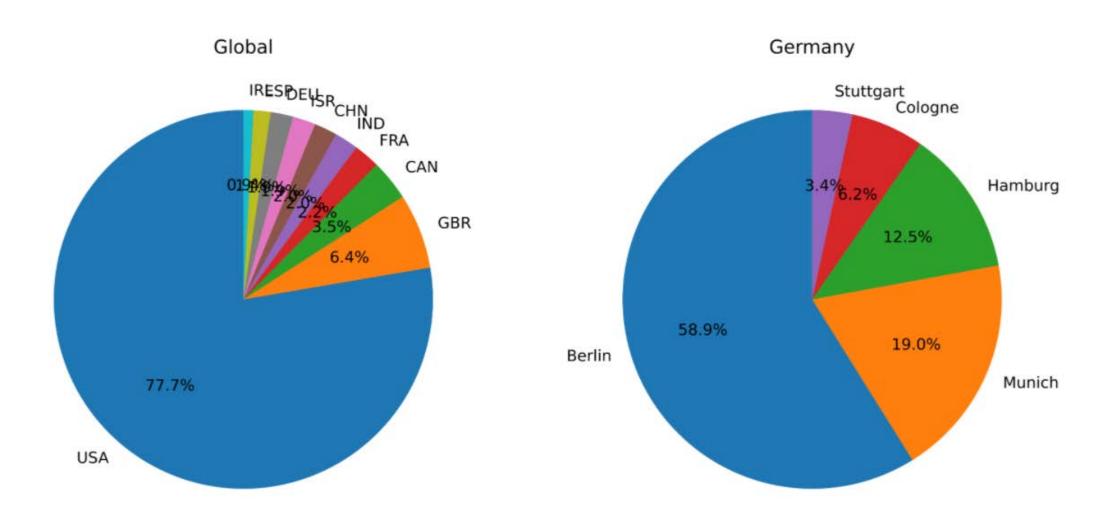




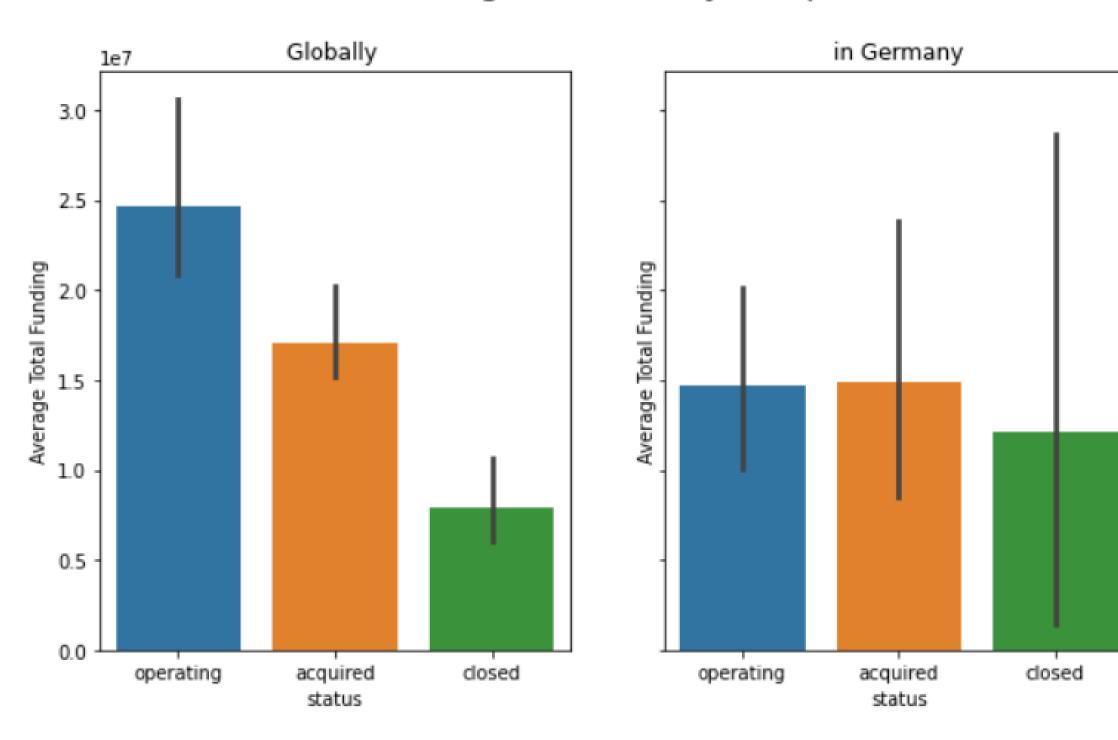


Top 10 Countries



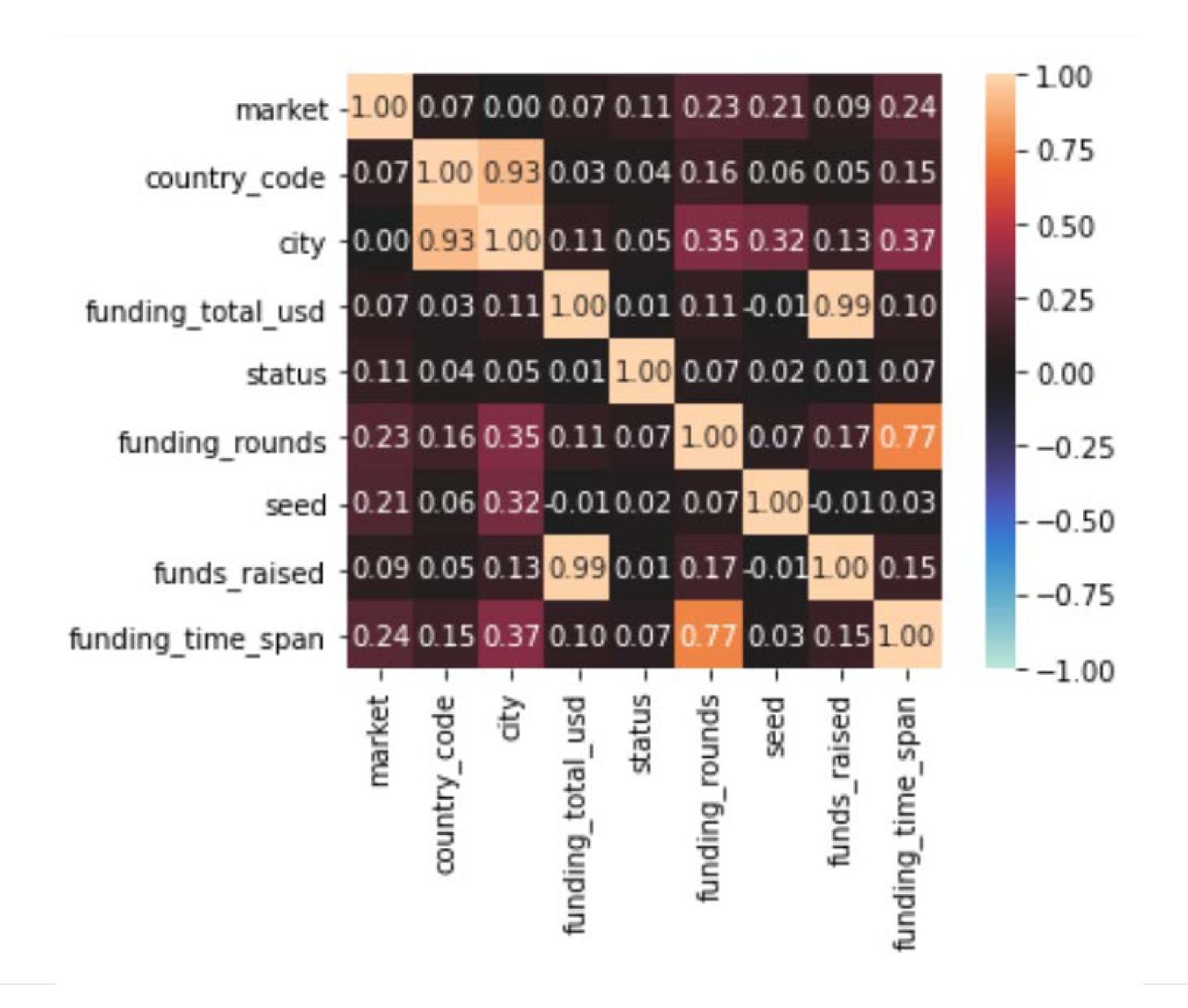


Total fundings recieved by companies



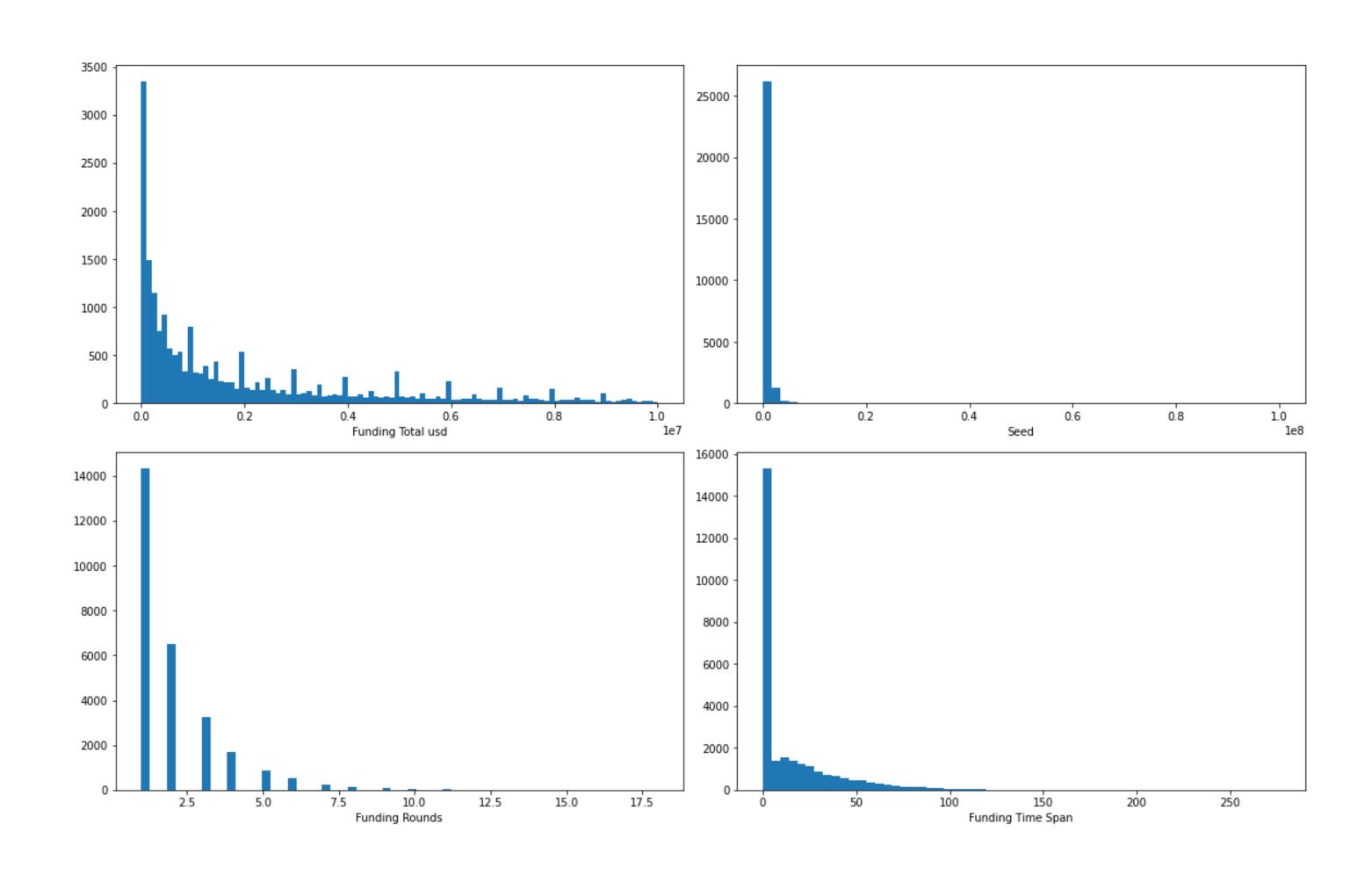
Correlation heatmap





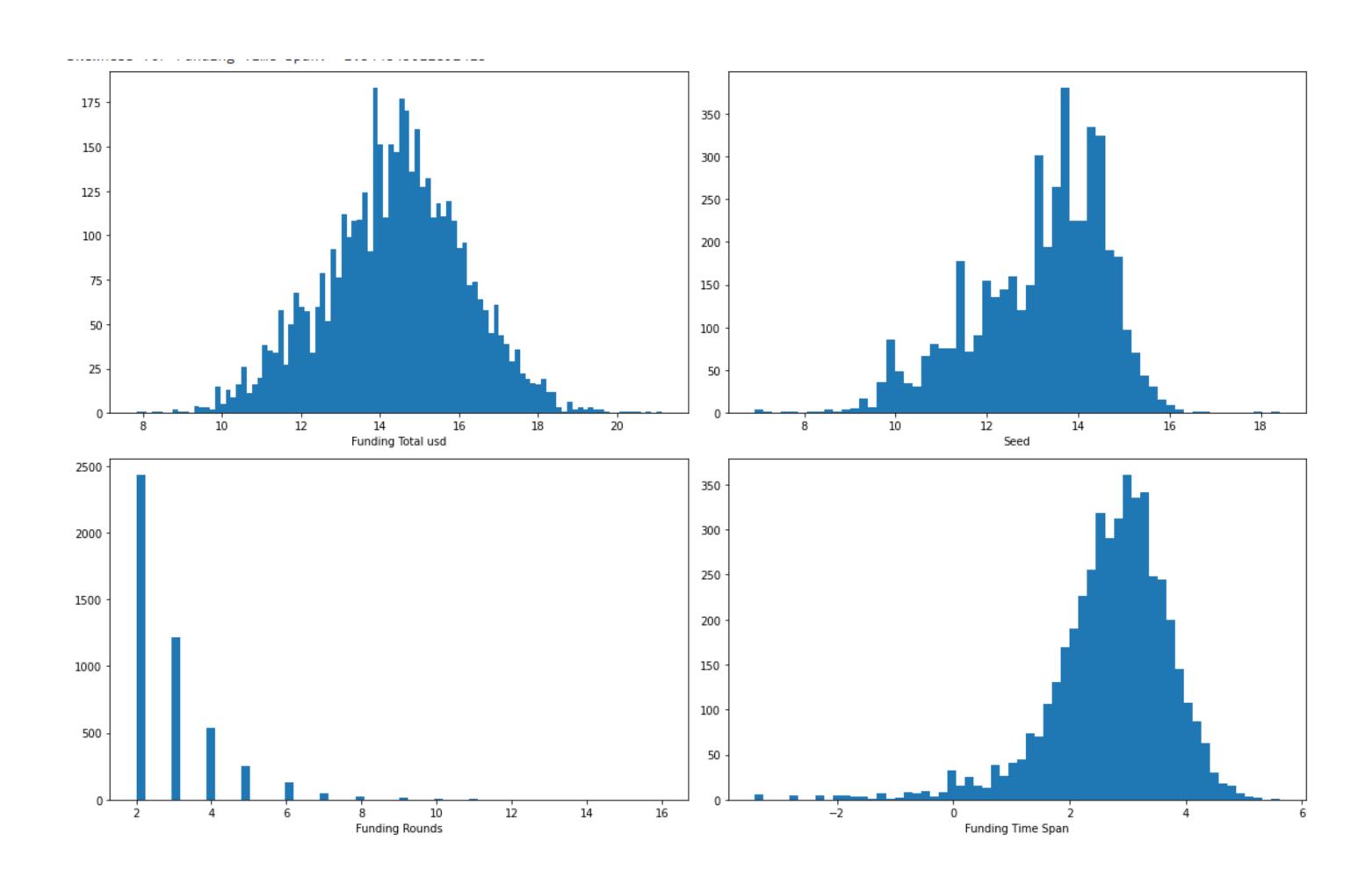
Distribution of Features before processing





Distribution of Features after processing







Predictive Model using Logistic Regression

Logistic Regression

ANN Model

	precision	recall	f1-score	support
acquired closed operating	0.00 0.00 0.86	0.00 0.00 1.00	0.00 0.00 0.92	818 484 7846
accuracy macro avg weighted avg	0.29 0.74	0.33 0.86	0.86 0.31 0.79	9148 9148 9148
[[0 0 [0]]] [0 0 7]] [0 0 7]	818] 484] 7846]]			

	precision	recall	f1-score	support
acquired closed	0.12 0.10	0.10 0.14	0.11 0.12	100 43
operating	0.92	0.92	0.92	1403
accuracy macro avg	0.38	0.38	0.84 0.38	1546 1546
weighted avg	0.38	0.84	0.84	1546
[[10 8 [2 6	82] 35]			
72 47 1	.284]]			



THANK YOU!