### **Project 3 Proposal: classification of start-up companies**

### **Business Case:**

There are many start-up companies founded every year. There are start-ups, which are acquired by other companies, while others remain independent or decide to be publicly trade.

There are economic implications for any of these outcomes for the investors, employees and founders. Thus, developing a model to classify start-ups would be helpful to these stakeholders.

#### Minimum Viable Product:

The MVP for this project is to classify companies five years and older between acquired and not acquired.

### The Data:

The data is a 2013 snapshot contains a replica of the Crunchbase dataset from October 2013. That includes all organization, and product profiles along with funding rounds, acquisitions, and IPOs.

crunchbase-companies.csv	Variable used	Alternative variable to be created		
name	Υ			
category_code	Υ			
funding_total_usd	N			
status	Υ			
country_code	Υ			
state_code	Υ			
region	Υ			
city	Υ			
funding_rounds	Υ			
founded_at	Υ	Estimated to calculate other variables and		
		filter into companies less than 5 years old		
founded_month	Υ			
founded_quarter	Υ			
founded_year	N			
first_funding_at	Υ			
last_funding_at	Υ	Last_funding (in days since company foundation)		
last_milestone_at	N			

crunchbase-acquisitions.csv	.,	
company_name	Υ	
company_category_code	Υ	
company_country_code	Υ	
company_state_code	Υ	
company_region	Υ	
company_city	Υ	
acquirer_permalink	N	
acquirer_name	N	
acquirer_category_code	N	
acquirer_country_code	N	
acquirer_state_code	N	
price_currency_code	N	
acquirer_region	N	
acquirer_city	N	
acquired_at	N	
acquired_month	N	
acquired_quarter	N	
acquired_year	N	
price_amount	N	
crunchbase-investments		
company_name	Υ	
company_category_code	Υ	
company_country_code	Υ	
company_state_code	Υ	
company_region	Υ	
company_city	Υ	
investor_permalink	N	
investor_name	N	
investor_category_code	N	
investor_country_code	N	
investor_state_code	N	
investor_region	N	
investor_city	N	
funding_round_type	Υ	
funded_at	Υ	Relative to founding date
funded_month	N	
funded_quarter	N	
funded_year	N	

raised_amount_usd	Υ	
crunchbase-rounds.csv		
company_name	Υ	
company_category_code	Υ	
company_country_code	Υ	
company_state_code	Υ	
company_region	Υ	
company_city	Υ	
funding_round_type	Υ	
funded_at	Υ	Relative to founding date
funded_month	N	
funded_quarter	N	
funded_year	N	
raised_amount_usd	Υ	

## crunchbase-companies.csv

name	17727	non-null	object
category code	17328	non-null	object
funding total usd	16222	non-null	object
status	17727	non-null	object
country code	17727	non-null	object
state code	17480	non-null	object
region	17727	non-null	object
city	17462	non-null	object
funding rounds	17727	non-null	int64
founded at	13676	non-null	object
founded month	13676	non-null	object
founded quarter	13676	non-null	object
founded year	13676	non-null	float64
first funding at	17622	non-null	object (time after foundation)
last funding at	17622	non-null	object
last milestone at	10528	non-null	object

# crunchbase-acquisitions.csv

company_name	4651	non-null	object
company_category_code	3933	non-null	object
company_country_code	4651	non-null	object
company_state_code	4543	non-null	object
company_region	4651	non-null	object
company_city	4532	non-null	object
acquirer_permalink	4651	non-null	object
acquirer_name	4651	non-null	object
acquirer_category_code	4137	non-null	object
acquirer_country_code	4384	non-null	object
acquirer_state_code	3877	non-null	object
acquirer_region	4651	non-null	object
acquirer_city	4262	non-null	object

acquired at	4651	non-null	object
			_
acquired_month	4651	non-null	object
acquired_quarter	4651	non-null	object
acquired_year	4651	non-null	float64
<pre>price_amount</pre>	1409	non-null	float64
price currency code	4648	non-null	object

# crunchbase-investments

company_name	52869 non-null object
company_category_code	52227 non-null object
company_country_code	52869 non-null object
company_state_code	52378 non-null object
company_region	52869 non-null object
company_city	52337 non-null object
investor_permalink	52868 non-null object
investor_name	52868 non-null object
investor_category_code	2443 non-null object
investor_country_code	40869 non-null object
investor_state_code	36061 non-null object
investor_region	52868 non-null object
investor_city	40390 non-null object
<pre>funding_round_type</pre>	52867 non-null object
funded_at	52867 non-null object
funded_month	52867 non-null object
funded_quarter	52867 non-null object
funded_year	52867 non-null float64
raised_amount_usd	49271 non-null float64

## crunchbase-rounds.csv

company name	31679	non-null	object
company_category_code	31215	non-null	object
company_country_code	31679	non-null	object
company_state_code	31334	non-null	object
company_region	31679	non-null	object
company_city	31329	non-null	object
<pre>funding_round_type</pre>	31679	non-null	object
funded_at	31679	non-null	object
funded_month	31679	non-null	object
<pre>funded_quarter</pre>	31679	non-null	object
funded_year	31679	non-null	int64
raised_amount_usd	29100	non-null	float64