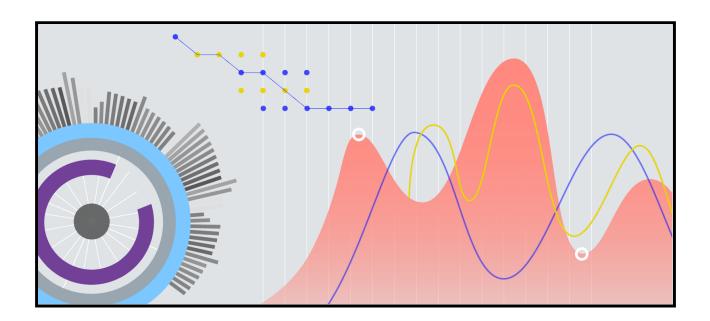
# 1,000 STARTUP DATA ANALYSIS AND VISUALIZATION



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Github Link to the project:

https://github.com/Abhijeet-Tiwarii/Projects-Data-Analysis-a nd-Visualization.git

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# **Objective:**

To analyse and visualize sample data of 1,000 startup company's revenue, expenses and growth. This analysis would be performed to decide which are the top companies are performing well financially.

## Hypothetical scenario:

Suppose I approached by a Venture Capital Fundraiser and the Board of Directors are currently reviewing 1,000 potential interesting startups and deciding on which ones they are going to invest in.

The criteria for selection for this fund is a combination of:

- High Revenue (2015)
- Low Expenses (2015)
- Top Growth (2015)

My task would be to assist the Board in identifying which business represent the best investment opportunities.

#### **About Data:**

It is an open source data available in internet. Itis a Excel sheet with two sheets in it, as follows,

#### 1. Overview

It has the demographic information about the startup companies.



Fig: 1,000 Startup: Overview

#### 2. Finance

It has financial information per year (2013-15) including revenue, expenses, and profit% of the startup companies.



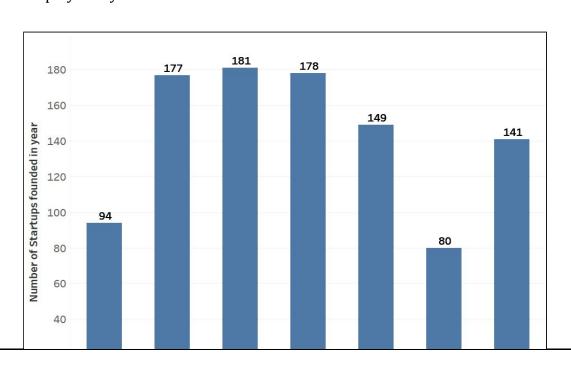
Fig: 1,000 Startup: Financial

#### **Results:**

# 1. Number of startups founder in year

As we can see from the Bar chart below, the majority of startups were founded between 2010 and 2013.

Fig: Number of employees by Year



# 2. Average number of Employees in the industry There are more employees working in Food and Beverage, and Energy industry compared to any other industry.

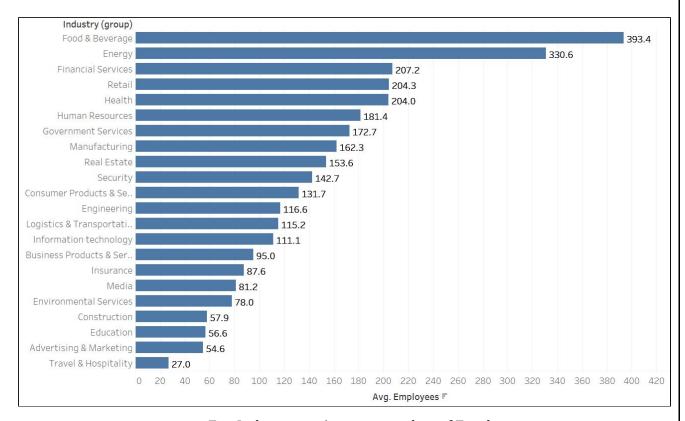


Fig: Industry vs. Average number of Employees

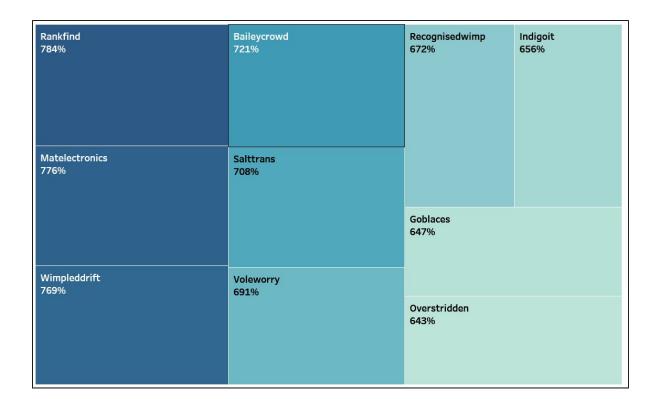
# 3. Top 20 startup by Growth percentage

Top 20 By Growth		
Startup =		
Rankfind	784%	
Matelectronics	776%	
Wimpleddrift	769%	
Baileycrowd	721%	
Salttrans	708%	
Voleworry	691%	
Recognisedwi	672%	
Indigoit	656%	
Goblaces	647%	
Overstridden	643%	
Oilyrhyolite	641%	
Glaciertolerant	640%	
Allowuntidy	629%	
Messrs	628%	
Factsworldcup	626%	
Zun-Ex	622%	
Quadice	620%	
Goldenware	617%	
Calmbus	611%	
Appaloosasmil	598%	

This is showing top 20 startups having highest growth percentage.

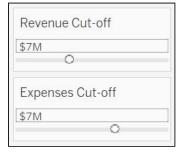
4. Treemap of top startups in terms of Growth%

Responsive Treemap of startups showing top startups in terms of Growth%

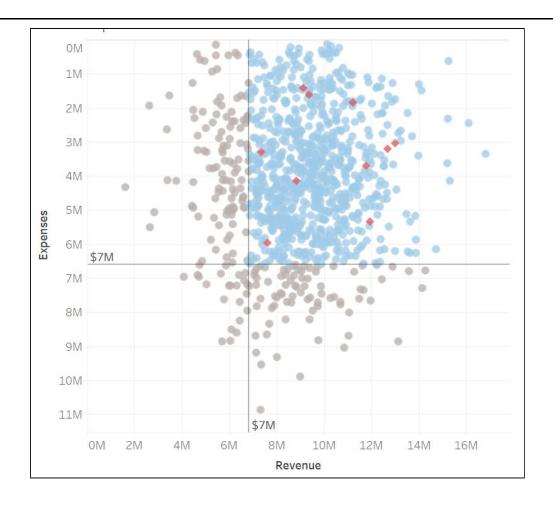




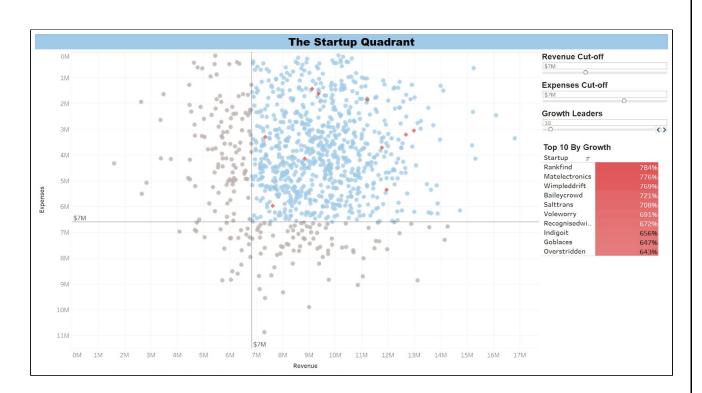
5. Scatter Plot: Revenue vs. Expense



A fully responsive scatter plot with functionality of adjusting favorable Revenue and Expense the see the result on the go.



### 6. Final Dashboard



Here, is the fully responsive dashboard with proper tooltip to help viewer easily identify the target values by filtering out from the parameters.

# **Conclusion:**

From above analysis and visualization of startup data, it concludes that the top 10 filtered companies performed well in 2015. This conclusion is based on filtering out the startups who generated high revenue with low expenses.