



INVESTMENT ASSIGNMENT SUBMISSION

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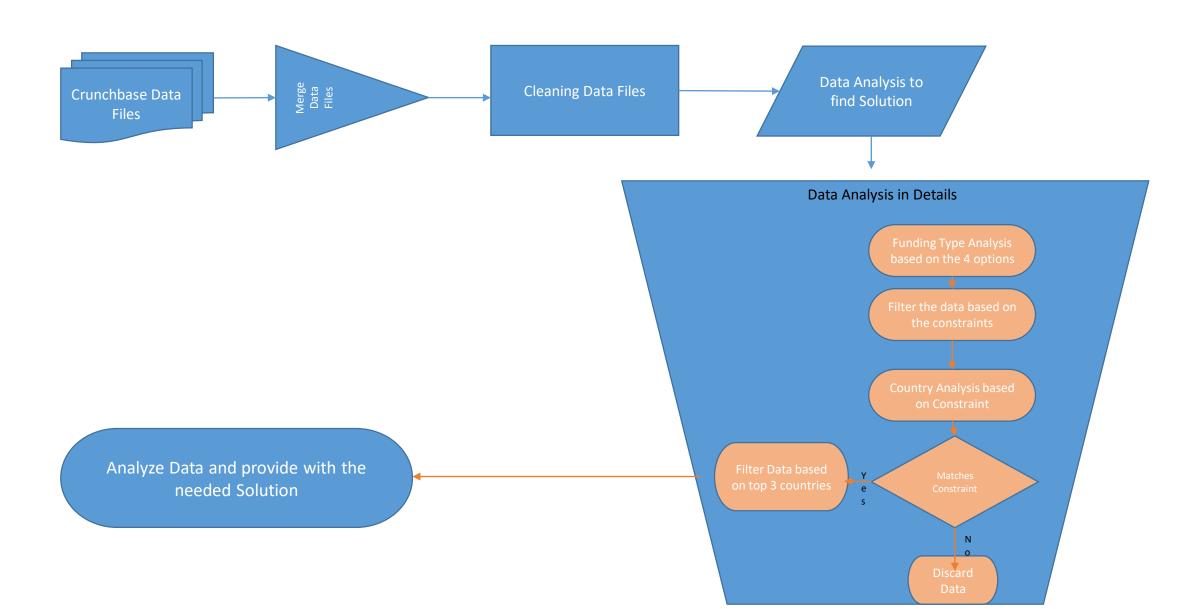
Spark Funds – Investment Analysis

- Spark Funds, an <u>asset management company</u> wants to make investments in a few companies.
- Spark Funds wants to invest where most other investors are investing.
- The objective is to identify the best sectors, countries, and a suitable investment type for making investments.
- Goals of data analysis:
 - 1.Investment type analysis
 - 2. Country analysis
 - 3. Sector analysis



Methodology used in Problem Solving







Data For Analysis



The data needed for analysis was acquired from multiple sources as below:

- rounds2 Data from crunchbase.com which has the details of investment.
- companies Data which has the details of each company in rounds 2.
- mapping Data about which company maps to which overall broad 8 category list.
- english_speaking_country_list Wikipedia link which contains the list of countries where English if official language.

Data Cleaning

- 1. Columns which are not directly related to the analysis eg: website_url has been dropped for the ease of analysis.
- 2. rows with Null values for important columns have been discarded as they constitute aa very small percentage of total data and removal of which will not impact the analysis.
- 3. mapping data has been cleaned of spelling mistakes so that it can match correctly to the correct data.



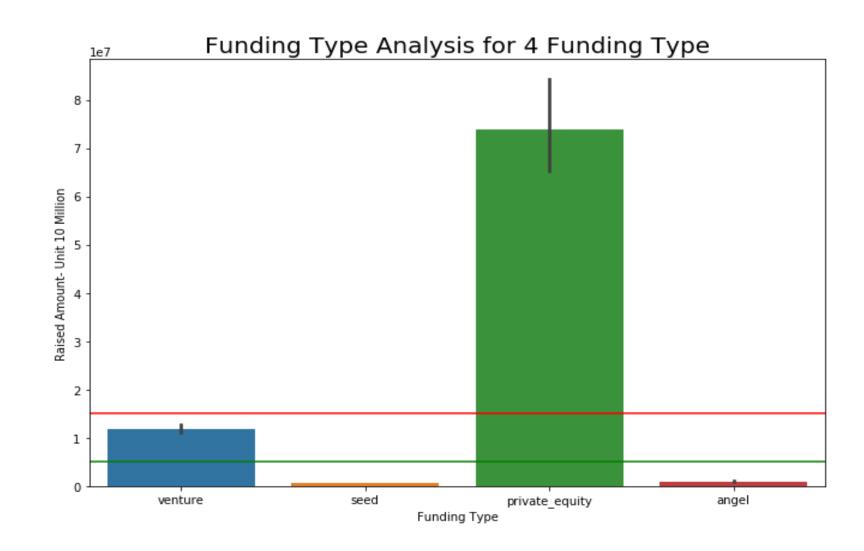
Funding Type Analysis



Based on the analysis on the right:

- 1. Angel funding type mean is \$0.97 mission.
- 2. Private Equity funding type is \$73.93 million.
- 3. Seed funding type is \$0.74 million.
- 4. Venture funding type is \$11.72 million.

Clearly based on the data its evident for Spark Funds to invest in only venture type funding as one of the constraint.





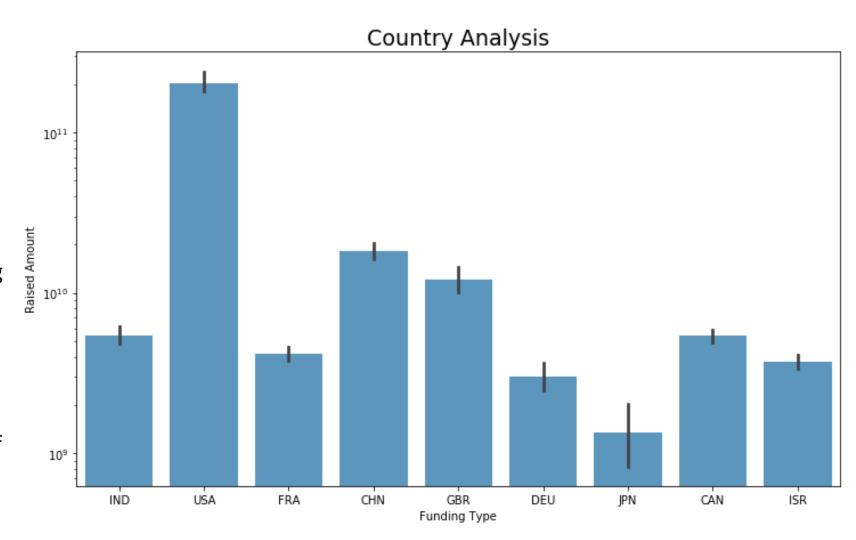
Country Analysis



Based on the analysis on the right:

- 1. USA is the Top English speaking country that received Venture funding at \$ 4.22068e+11.
- 2. GBR is the second English speaking country that received venture funding at \$ 2.00728+e10.
- 3. IND is the third English speaking country that received venture funding at \$ 1.42615+e10.

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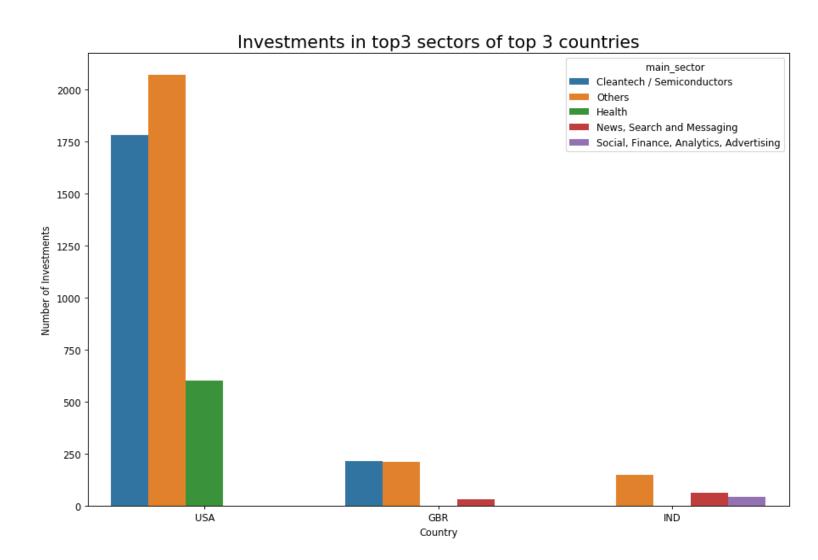


Sector Analysis



Based on the analysis on the right:

- 1. USA has the following as the top 3 sectors which has Venture as investment:-
 - 1. Others
 - 2. Cleantech / Semiconductors
 - 3. Health
- 2. GBR has the following as the top 3 sectors which has Venture as investment:-
 - 1. Cleantech/Semiconductors
 - 2. Others
 - 3. News, Search, Messaging
- 3. IND has the following as the top 3 sectors which has Venture as investment.
 - 1. Others
 - 2. News, Search, Messaging
 - Social, Finance, Analytics, Advertising







Based on all the analysis, Spark Funds will consider investing in the following sectors :

Country	Sector
USA	Others
	Cleantech / Semiconductors
	Health
GBR	Cleantech/Semiconductors
	Others
	News, Search, Messaging
IND	Others
	News, Search, Messaging
	Social, Finance, Analytics, Advertising