



# INVESTMENT ASSIGNMENT SUBMISSION

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### **Abstract:**

The CEO of Sparks Fund want's to understand the global trend in investments so that she can take effective investment investments decisions and invest in a few companies.

The objective here is to identify the a suitable investment/funding type, best sector and countries to invest into.

#### **Business Understanding:**

The strategy here is to <u>invest where most of the other investors are investing</u>. There are however 2 restrictions placed:

- Investment amount should be <u>between 5 to 15 Million USD</u> per round of investment
- Invest only in English speaking countries for ease of communication

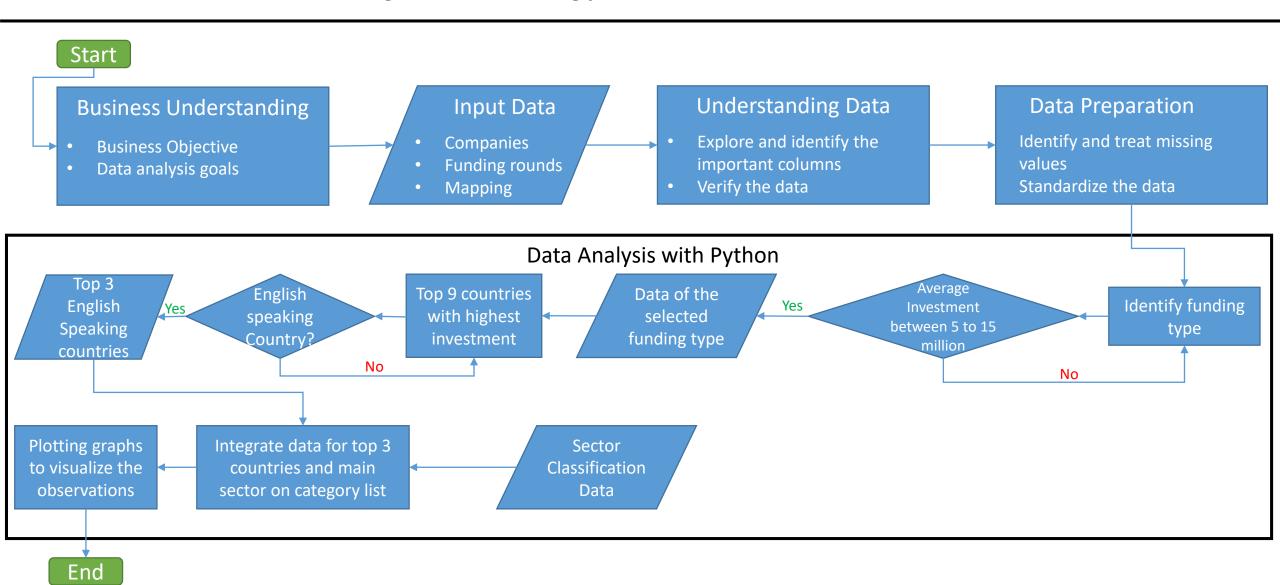
#### **Data Understanding:**

- Company details: Details of 66,368 companies containing a unique id for each of the companies, name of the company, country the company is based in, which category the company comes under, etc.
- **Funding Round details:** Contains a unique company id, the type of funding received by the company, money raised in that round of funding, etc. There are a total of **1,14,949** observations present.
- Sector Classification: Contains a map for mapping the category names in the companies table to 8 main sectors.



### Problem solving methodology









### **Funding Type Analysis**

#### **Restrictions on Funding Type:**

- For funding type, Sparks Fund is interested in one of the four funding types, namely, 'venture', 'angel', 'seed' and 'private equity'.
- The other restriction on funding type is that Sparks Fund wants to invest between **5 to 15 million USD** per round of investment.
- The table shows the representative amount of funding across the four funding types.
- From the table it is clear that 'angel', 'seed' and 'private equity' do not pacify Sparks Funds restriction on funding amount.
  - The representative value of 'angle' and 'seed' are way <u>below</u> the 5 to 15 million margin.
  - The representative value for 'private equity' is <u>beyond</u> the 5 to 15 million margin
- '<u>venture</u>' is the only funding type that pacifies the 'between 5 to 15 million USD per round of investment' restriction

round of investment	restriction		

Funding Type	Representative amount
Venture	\$5,000,000.00
Angel	\$414,906.00
Seed	\$300,000.00
Private Equity	\$20,000,000.00

<sup>✓</sup> Hence, the best funding type for Sparks Funds is 'venture'.





# **Country Analysis**

#### **Sparks Funds criteria for selecting the country to invest in:**

- Countries which have been heavily invested in, in the past.
- For ease of communication invest in **English-speaking countries** only.
- The table shows the top 9 countries that have been heavily invested in.
- Based on the analysis of this table, the top 3 English-Speaking countries turn out to be United States (USA), United Kingdom (GBR), and India (IND).

Hence the top 3 countries for Sparks Fund to invest in are:

- ✓ United States (<u>USA</u>)
- ✓ United Kingdom (GBR)
- ✓ India (IND)

Country Code	Total amount invested
USA	\$420,068,029,342.00
CHN	\$39,338,918,773.00
GBR	\$20,072,813,004.00
IND	\$14,261,508,718.00
CAN	\$9,482,217,668.00
FRA	\$7,226,851,352.00
ISR	\$6,854,350,477.00
DEU	\$6,306,921,981.00
JPN	\$3,167,647,127.00





### **Sector Analysis**

#### Criteria for selection of the sector:

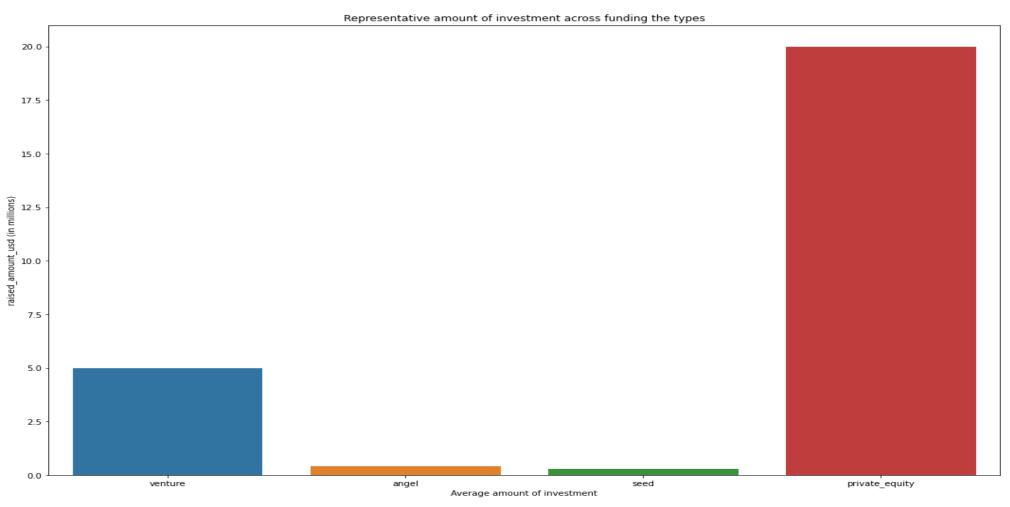
- Sectors which have been heavily invested into in the past.
- The table shows the top 3 sectors in the top 3 countries on the basis of count.
- Based on the analysis of this table, the sector 'Others' comes up as the most invested sector followed by 'Social, Finance, Analytics, Advertising' for all the top 3 countries.
- The companies in the top sector 'Others' that received the highest investment are:
  - Virtustream in USA
  - Electric Cloud in GBR
  - FirstCry in IND

Country Code	Sector Ranking	Sector	Number of investments	
	1	Others	2950	
USA	2	Social, Finance, Analytics, Advertising	2714	
	3	Cleantech / Semiconductors	2350	
	1	Others	147	
GBR	2	Social, Finance, Analytics, Advertising	133	
	3	Cleantech / Semiconductors	130	
	1	Others	110	
IND	2	Social, Finance, Analytics, Advertising	60	
	3	News, Search and Messaging	52	





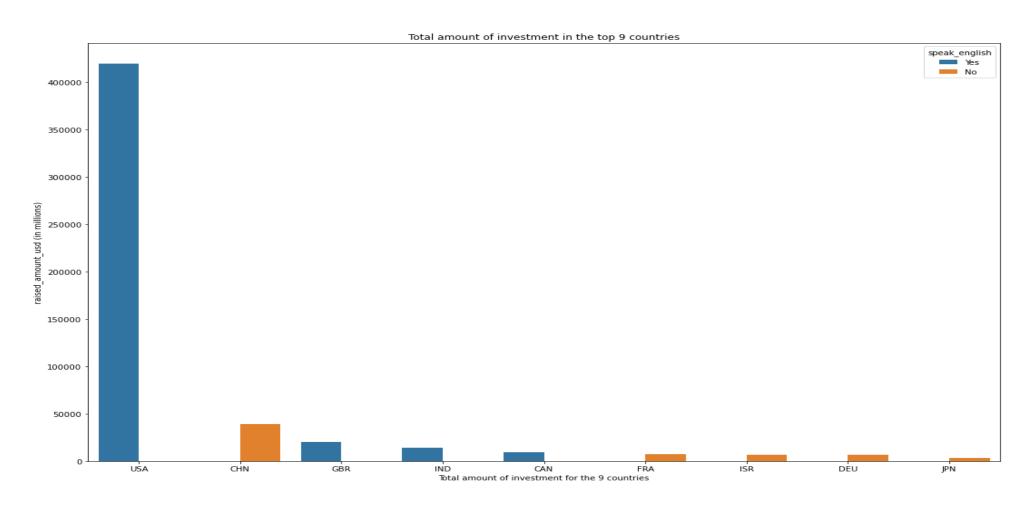
# **Plot: Funding Type Analysis**







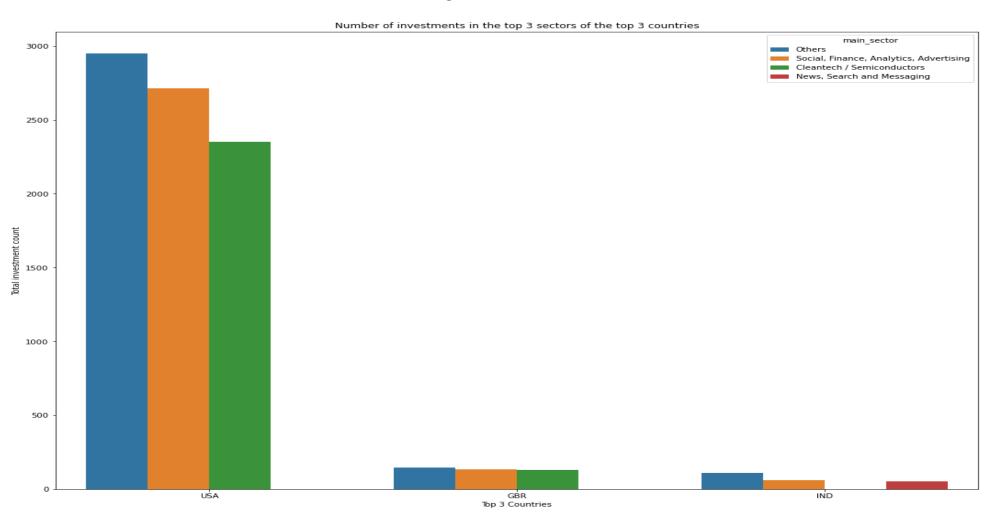
## Plot 2: Country Analysis







### Plot 3: Sector Analysis







### Conclusions

Based on the analysis Sparks Fund can adopt investment strategy suggested below:

- Sparks Fund should consider investing in funding type 'venture' for the sector 'Others' in the country 'USA' as that is where a bulk of the investments are happening.
- If Sparks Fund intends to invest in multiple countries to minimise the risk, then the top three countries to invest in would be 'United States (USA)', 'United Kingdom (UK)' and 'India (IND)' for the investment type 'venture' and the sector would be 'Others'.
- Some of the companies that Sparks Fund can invest in for the sector 'Others' are:
  - Virtustream in United States (US)
  - **Electric Cloud** in United Kingdom (GBR)
  - **FirstCry** in India (IND)