



# INVESTMENT ASSIGNMENT SUBMISSION

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#### **Abstract**

#### **Business Objective:**

The objective is to identify the best sectors, countries, and a suitable investment type for "**Spark Funds**" to make investments. The overall strategy is to invest where others are investing, implying that the 'best' sectors and countries are the ones "where most investors are investing".

#### **Goals of Data Analysis:**

- 1. Investment-type Analysis: Choosing the type that is best suited for their strategy.
- 2. Country Analysis: Identifying the countries which have been the most heavily invested in the past.
- 3. Sector Analysis: Understanding the distribution of investments across the eight main sectors as provided in the mapping file.





# **Problem solving methodology**

A step-by-step approach has been followed as shown in the below diagram to find the best Sector for Investment among the Top English speaking Countries

Note: All the constraints of SPARKS FUND has been kept in mind throughout the data analysis,

- Per round of investment range is 5 to 15 million USD
- Only **English-speaking countries** preferred.
- Real investment data is taken from crunchbase.com.







# **Funding Type Analysis**

- The average amount of investment for 'angel' & 'seed' is very less as seen in the table. Hence these investment types are not considered as they fall below '5 million USD' category.
- The average amount of investment for 'private equity' type investment is very high as seen from the table which is around 73 million USD which is too high for SPARKS FUND to invest.
- As seen from the table the average amount of investment for venture type is around 11 million USD which falls in the between 5 to 15 million USD range.
- Most suitable investment type out of the 4 investment type options for SPARKS FUND "venture".

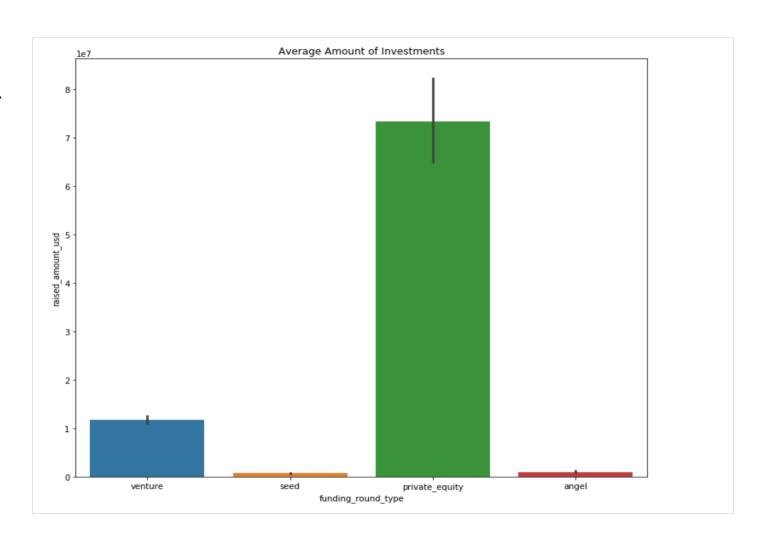
FUNDING TYPES	AVERAGE AMOUNT in USD \$
angel	958694
convertible_note	1453439
debt_financing	17043526
equity_crowdfunding	538368
grant	4300576
non_equity_assistance	411203
post_ipo_debt	168704572
post_ipo_equity	82182494
private_equity	73308593
product_crowdfunding	1363131
secondary_market	79649630
seed	719780
undisclosed	19242370
venture	11748949





# **Average Investments for Each Funding Type**

- **Venture** funding type lies within the range of 5 to 15 million USD.







# **Country Analysis**

- On the filtered data with chosen investment type as "venture", the approach is taken to find the top 9 countries which receive the highest funding amount.
- USA receives the highest funding amount of \$4,22,51,08,00,000.00 USD.
- Although CHN(China) receives the next highest funding amount, but it is not an English Speaking country, so its not considered for investment.
- The 2<sup>nd</sup> and 3<sup>rd</sup> top country for investment is "GBR" & "IND".
- Top 3 Countries for Investment are hence:
  - **-1. USA**
  - **-2. GBR**
  - -3. IND

COUNTRIES	<b>FUNDING RECEIVED IN USD</b>
USA	\$4,22,51,08,00,000.00
CHN	\$39,83,54,20,000.00
GBR	\$20,24,56,30,000.00
IND	\$14,39,18,60,000.00
CAN	\$9,58,33,32,000.00
FRA	\$7,25,95,37,000.00
ISR	\$6,90,75,15,000.00
DEU	\$6,34,69,60,000.00
JPN	\$3,36,36,77,000.00

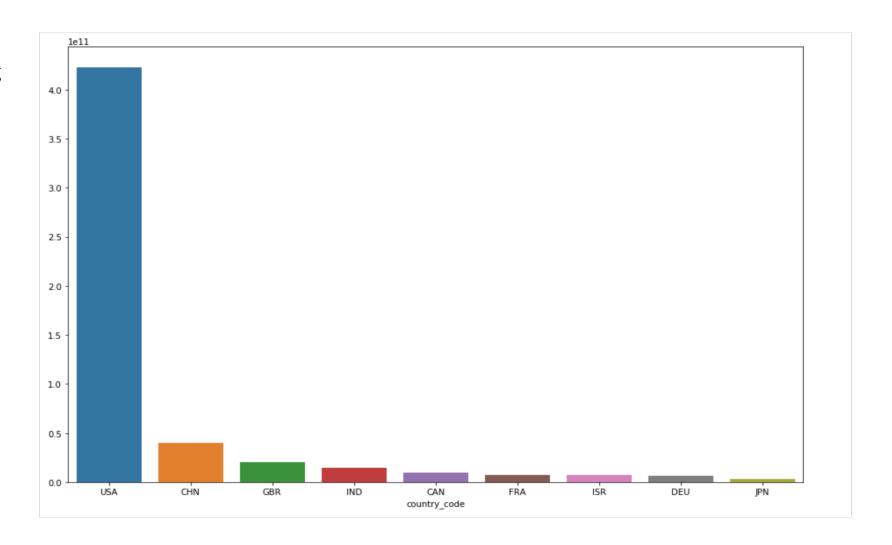




# Plot of Investments Country Wise

Clearly the top English speaking countries as seen from the plot are :

- 1- USA
- 2- GBR
- 3- IND







# **Sector Analysis**

The table below shows the top 3 sectors of top 3 countries USA, GBR & IND is shown as below.

TOP COUNTRIES	TOP SECTOR 1	TOP SECTOR 2	TOP SECTOR 3
1- USA	Others	Cleantech / Semiconductors	Social, Finance, Analytics, Advertising
2- GBR	Others	Cleantech / Semiconductors	Social, Finance, Analytics, Advertising
3- IND	Others	News, Search and Messaging	Entertainment





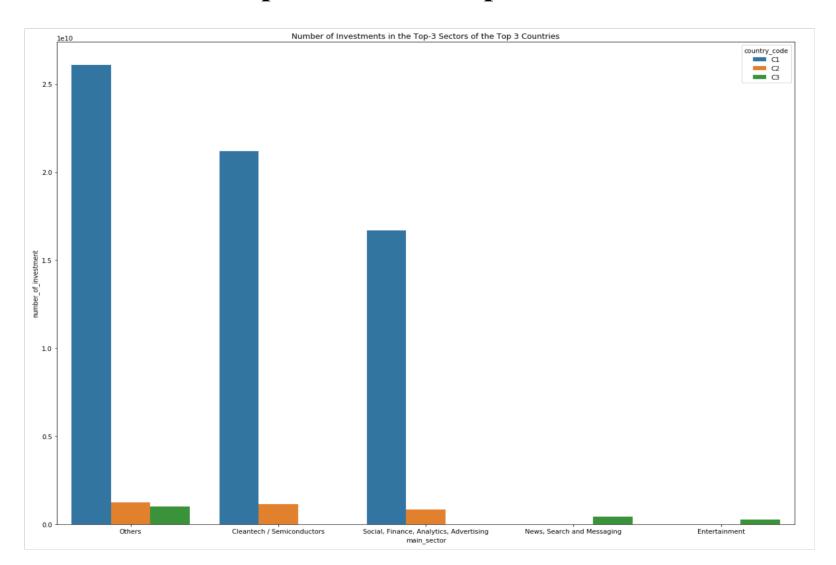
## Plot of number of investments in the top 3 sectors in top 3 countries

Here,

C1 - USA

C2 - GBR

C3 - IND







## Conclusions

Based on the analysis & observations done, the below inferences are drawn:

OBSERVATION TYPE	OBSERVATIONS		
BEST FUNDING TYPE:	Venture		
TOP COUNTRIES	1- USA	2- GBR	3- IND
TOP SECTOR 1	Others	Others	Others
TOP SECTOR 2	Cleantech / Semiconductors	Cleantech / Semiconductors	News, Search and Messaging
TOP SECTOR 3	Social, Finance, Analytics, Advertising	Social, Finance, Analytics, Advertising	Entertainment