

INVESTMENT ASSIGNMENT SUBMISSION

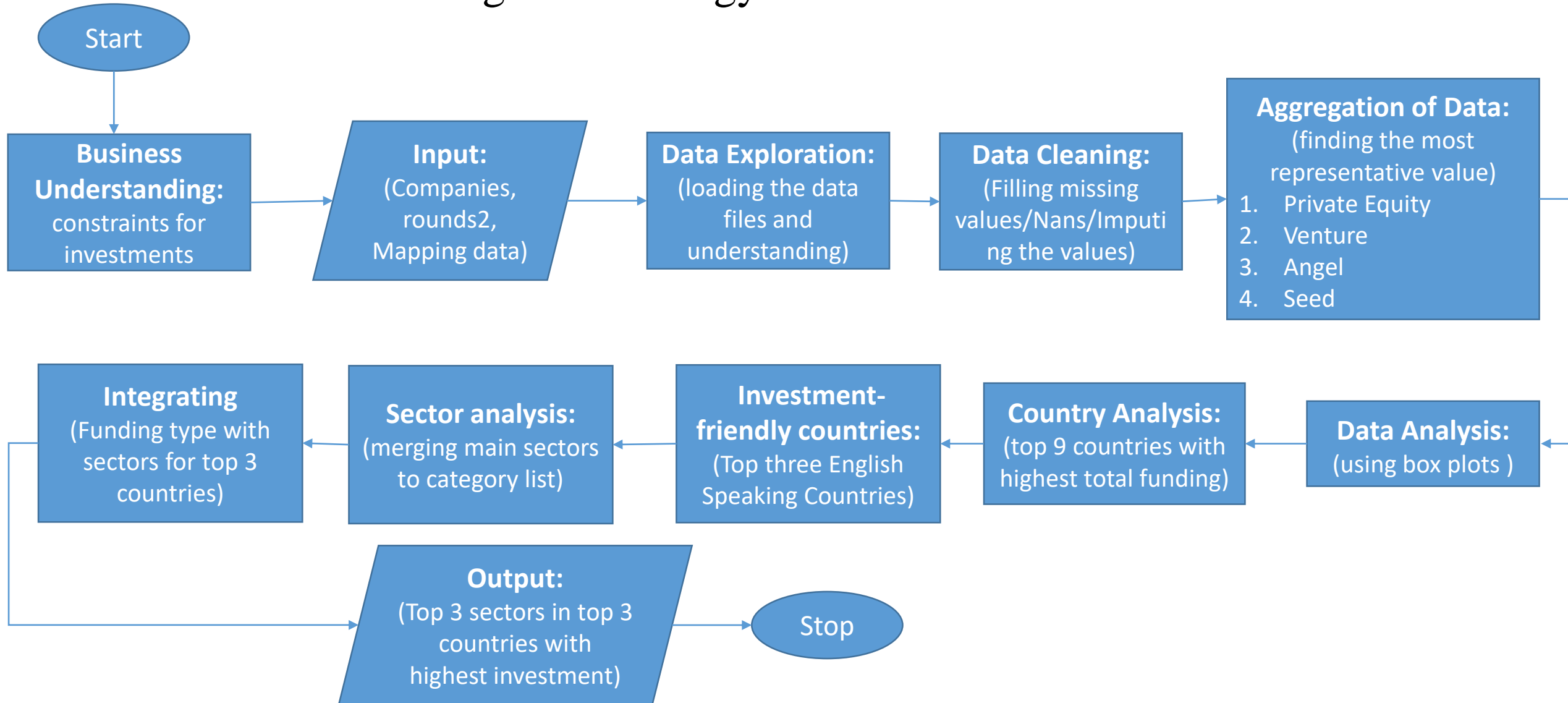
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<Abstract>

The CEO of Spark Funds wants to understand the global trends in investments so that she can take the investment decisions effectively by identifying the best sectors, countries, and a suitable investment type for making investments with the following two minor constraints:

- It wants to invest between **5 to 15 million USD** per round of investment.
- It wants to invest only in **English-speaking countries** because of the ease of communication with the companies it would invest in.

<Problem solving methodology>



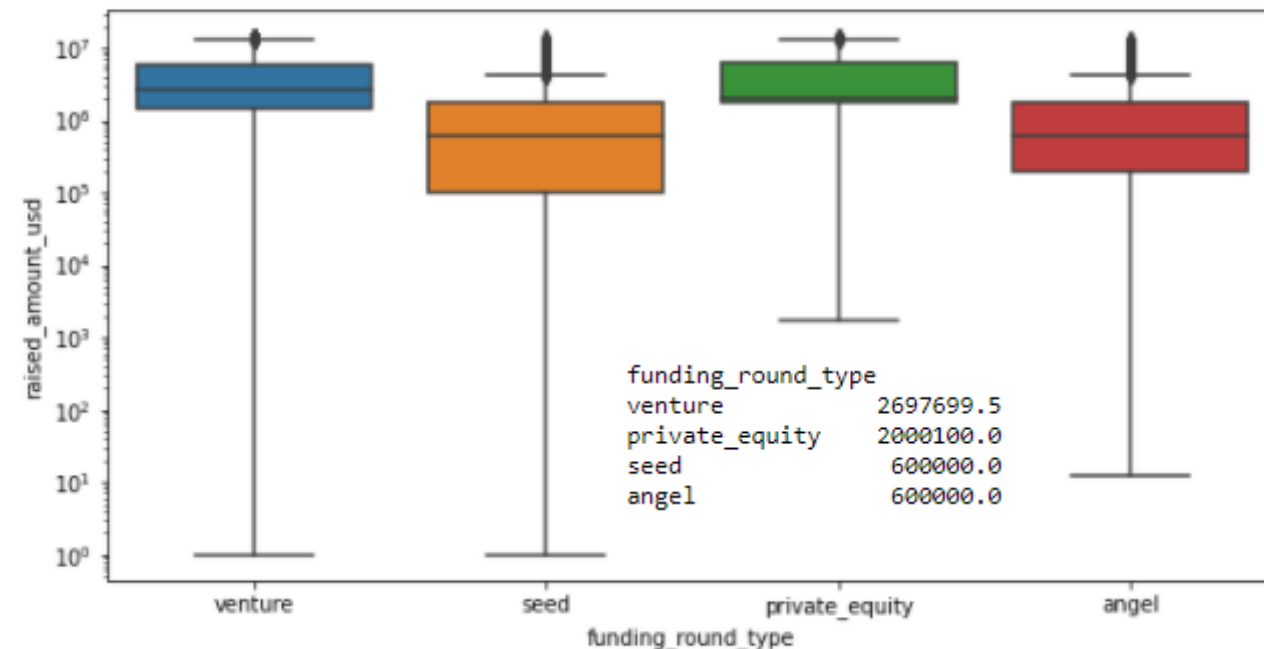
<Funding Type Analysis>

Based on the Spark Funds constraint, Median is selected as the most representative value of the investment amount. As per the below plot analysis for four funding types (venture, angel, seed, and private equity) , **Venture** is the best representative value to invest between 5 to 15 million USD.

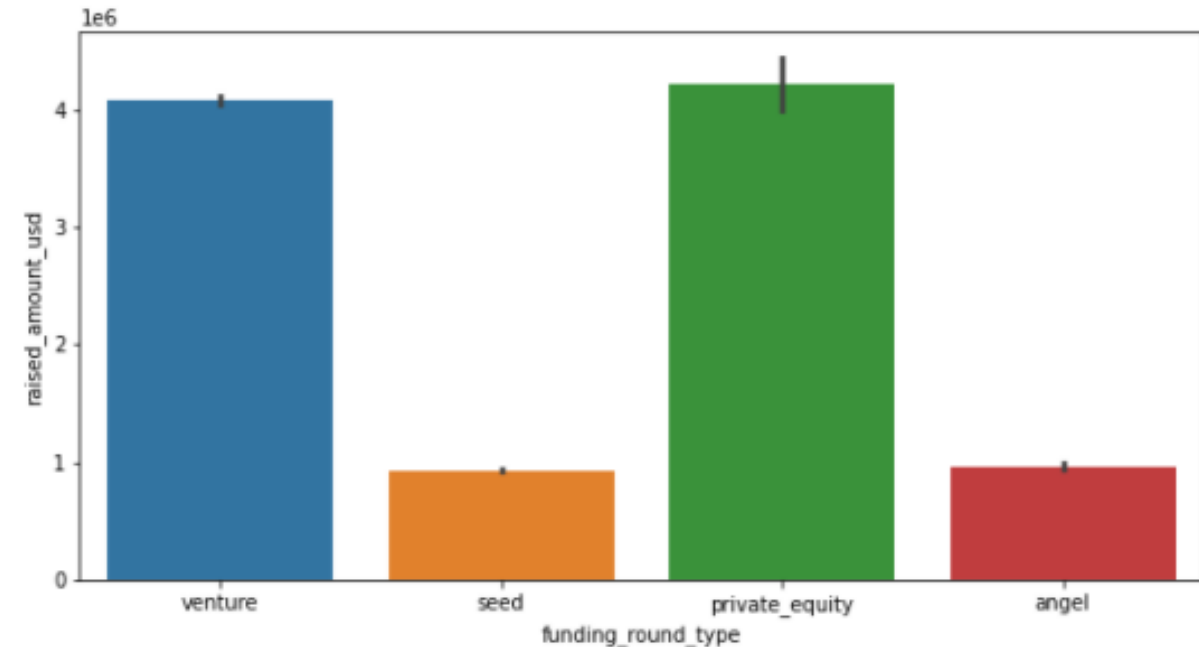
With Outliers

funding_round_type	private_equity	venture	seed	angel
private_equity	13259343.0			
venture		4048162.0		
seed			600000.0	
angel				600000.0

Raised Amount USD Vs four FT(by removing Outliers)



Average amount of Investment in venture, seed, private_equity, angel

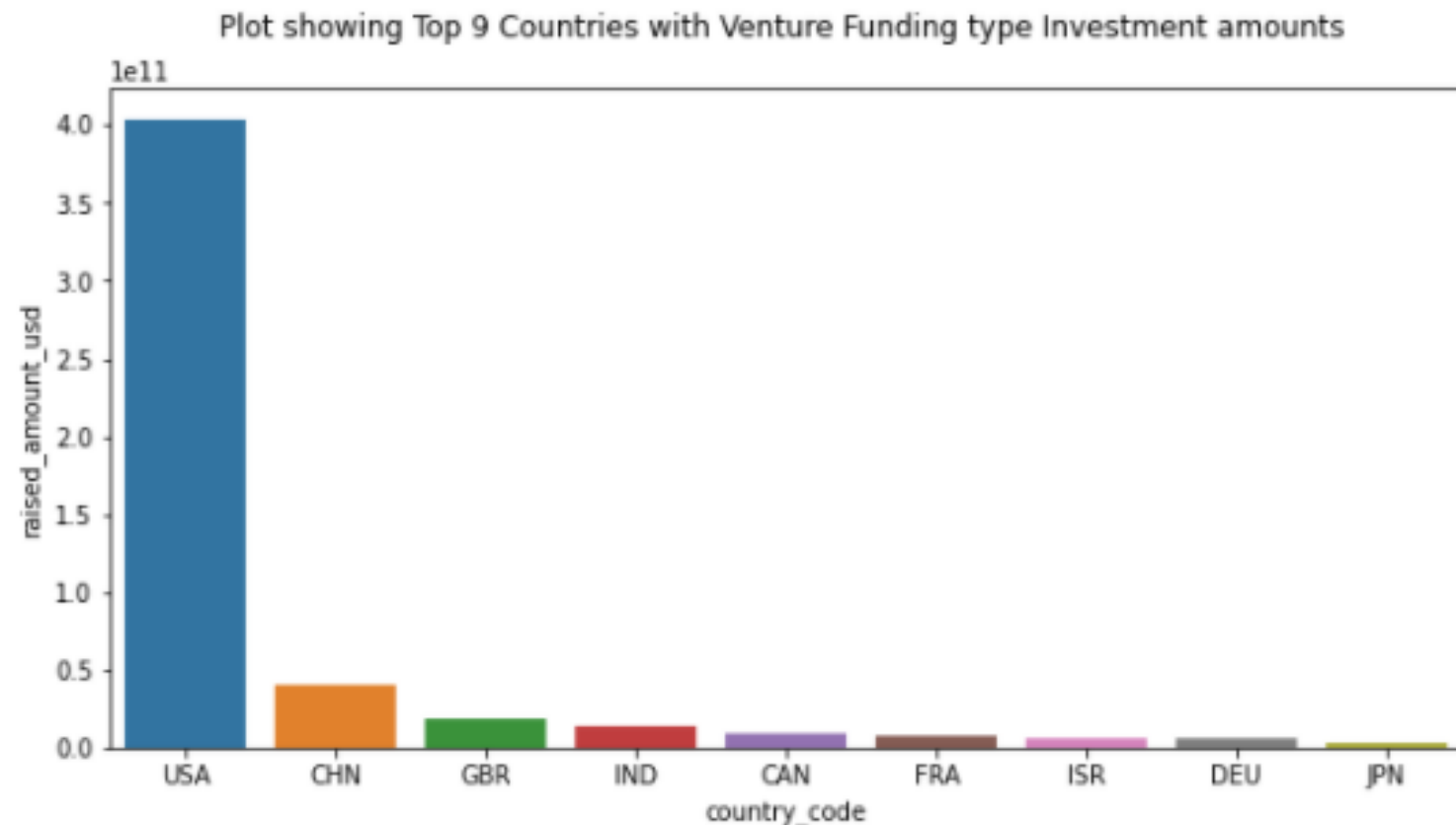


<Country Analysis>

- The top nine countries which have received the highest total funding(before removing outliers).
- The top 3 English speaking countries are USA, GBR, IND.

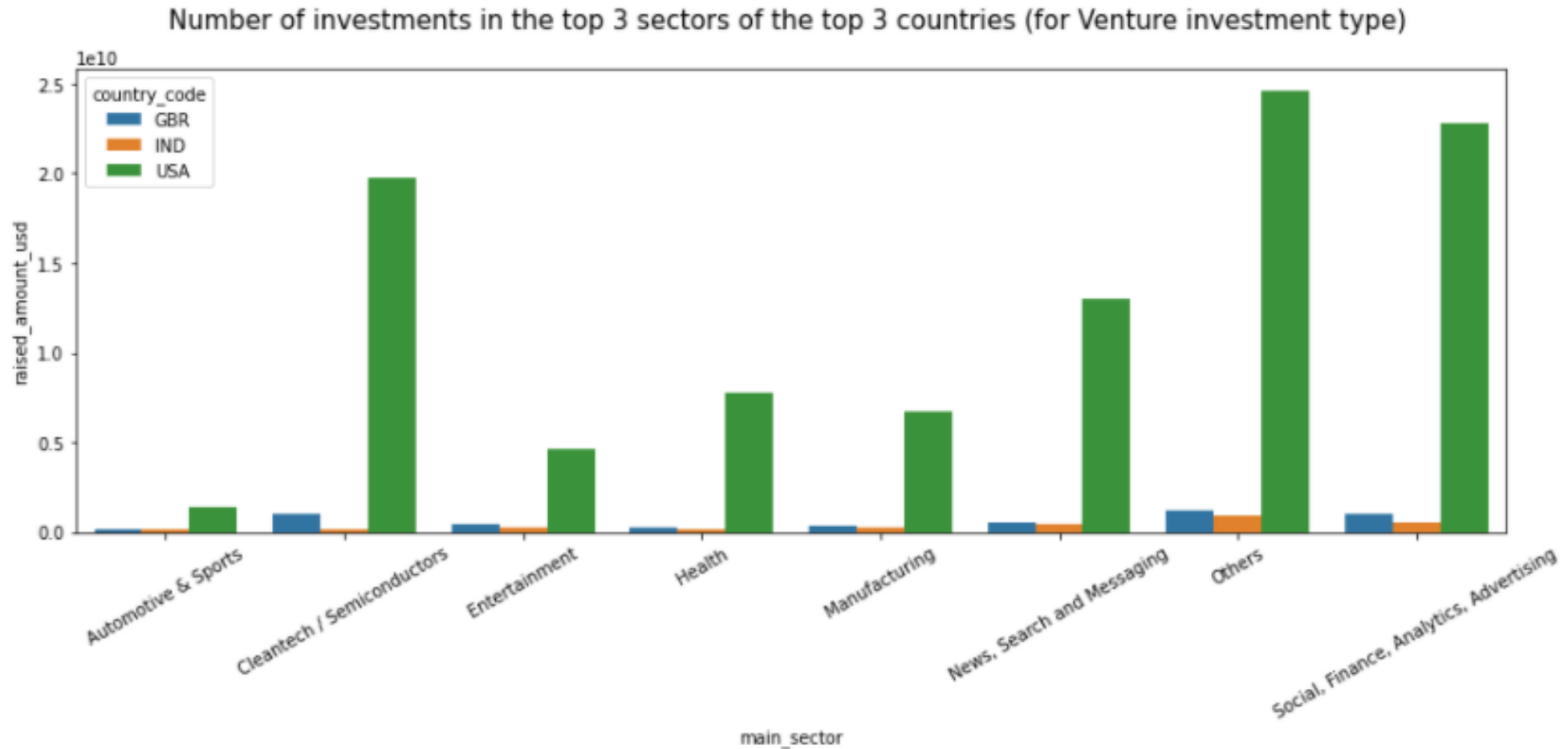
Analysing the Top 3 English-Speaking Countries		
Sl.No	Questions	Answers
1	Top English speaking country	USA
2	Second English speaking country	GBR
3	Third English speaking country	IND

	country_code	raised_amount_usd
99	USA	4.035821e+11
16	CHN	3.999602e+10
31	GBR	1.864209e+10
41	IND	1.433760e+10
13	CAN	8.975987e+09
30	FRA	6.881794e+09
44	ISR	6.692021e+09
23	DEU	6.439141e+09
47	JPN	3.317282e+09



<Sector Analysis>

Plot showing top 3 sectors where most investors are investing for top 3 countries for venture funding type



<Conclusions>

Based on the Spark Funds' business objective and our analysis, below are the conclusions:

- ✓ Venture funding type is the best to invest between 5 to 15 million USD.
- ✓ Top three Investment-friendly countries, with English speaking having highest investments in Venture are
 1. USA
 2. GBR
 3. IND
- ✓ Top three sectors, for funding in above countries are
Others; Social Finance, Analytics, Advertising; Cleantech / Semiconductors

*USA, is the best place to make investment. If Spark Funds wants to reduce the impact of economy fluctuations, they can invest in United Kingdom and India in the venture funding type and the top sector is "Others".
Spark Funds can also invest amount in different countries in different sectors to reduce risk by investing all in one.*