

INVESTMENT ASSIGNMENT SUBMISSION

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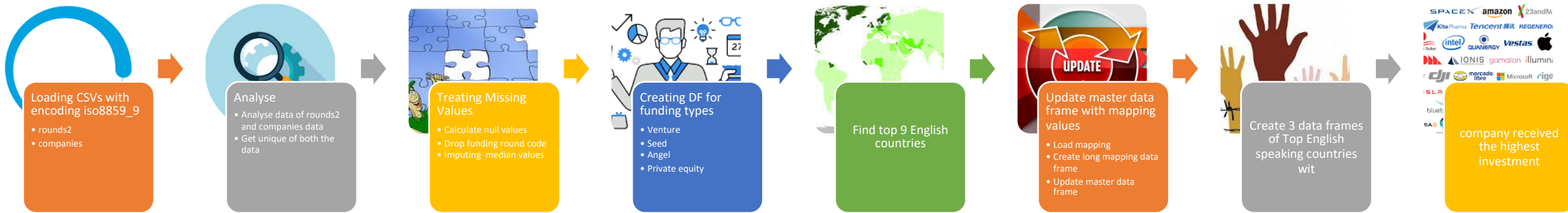
<Abstract>

Spark Funds, an [asset management company](#). Spark Funds wants to make investments in a few companies. The CEO of Spark Funds wants to understand the global trends in investments so that she can take the investment decisions effectively

Spark Funds has two minor constraints for investments:

- 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

<Problem solving methodology>



Data Visualization

- A plot showing the representative amount of investment in each funding type
- A plot showing the top 9 countries against the total amount of investments of funding type FT
- A plot showing the number of investments in the top 3 sectors of the top 3 countries on one chart

<Analysis>

Sl. No	Questions	Answer
1	How many unique companies are present in rounds2?	66370
2	How many unique companies are present in the companies file?	66368
3	In the companies data frame, which column can be used as the unique key for each company? Write the name of the column.	Permament Link
4	Are there any companies in the rounds2 file which are not present in companies ? Answer Y/N.	Yes
5	Merge the two data frames so that all variables (columns) in the companies frame are added to the rounds2 data frame. Name the merged frame master_frame. How many observations are present in master_frame ?	<p>There is.1 missing value for name column</p> <p>There are 6132 missing values for homepage url column</p> <p>There are 3407 missing values for category_list column</p> <p>There are 8671 missing values for country_code column</p> <p>There are 10939 missing values for state_code</p> <p>There are 10160 missing values for region column</p> <p>There are 10157 missing values for city column</p> <p>Theere are 20520 missing values for founded_at column</p>

<Analysis>

Representative Values of Investments for Each of these Funding Types		
Sl.No	Questions	Answer
1	Representative funding amount of venture type	4000000
2	Representative funding amount of angel type	600000
3	Representative funding amount of seed type	574586.5
4	Representative funding amount of private equity type	12122011
5	Considering that Spark Funds wants to invest between 5 to 15 million USD per investment round, which investment type is the most suitable for them?	Looking at the median and max values , Venture type investment is best suitable for Spark Funds

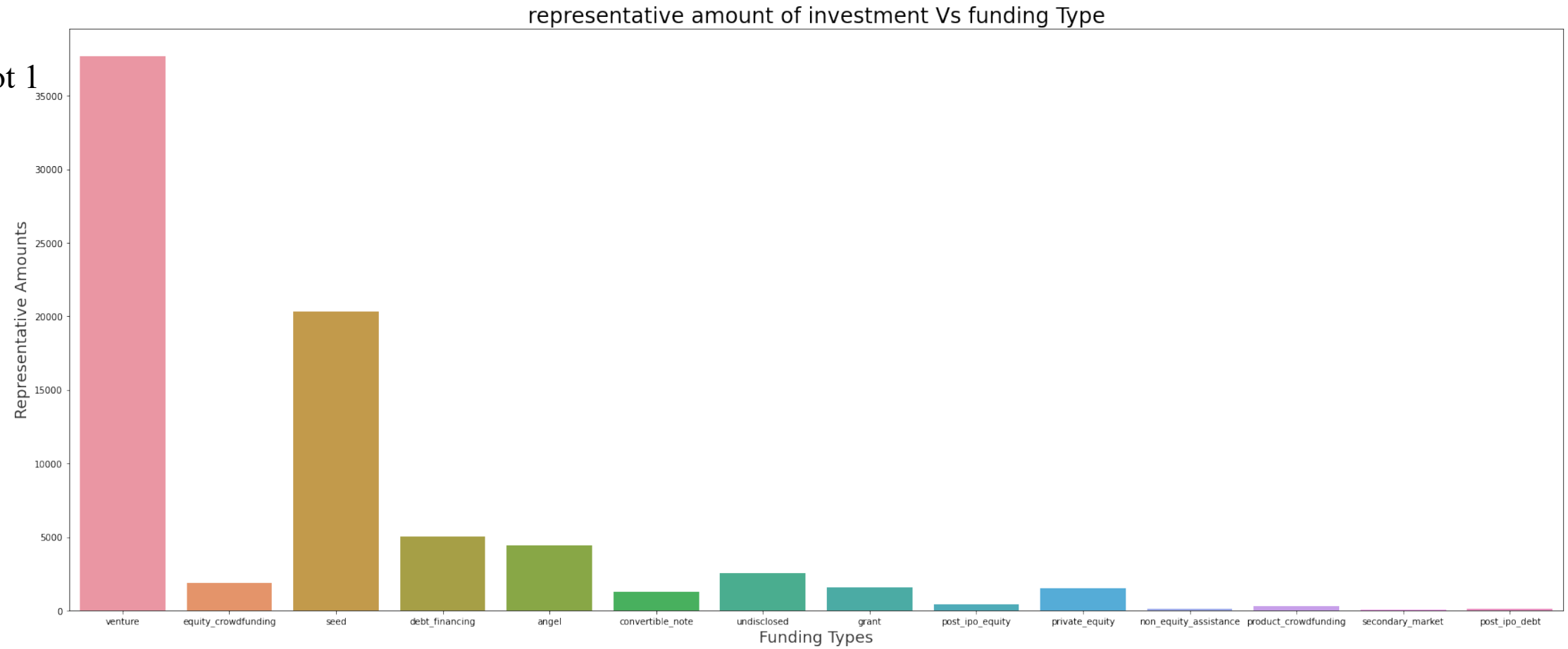
Analysing the Top 3 English-Speaking Countries		
Sl.No	Questions	Answers
1	Top English speaking country	USA
2	Second English speaking country	India
3	Third English speaking country	Netherlands

<Analysis>

Sector-wise Investment Analysis				
Sl.no	Questions	C1	C2	C3
1	Total number of Investments (count)	28616	741	150
2	Total amount of investment (USD)	3.28937E+11	12283017086	2237570800
3	Top Sector name (no. of investment-wise)	Others	Others	Cleantech / Semiconductors
4	Second Sector name (no. of investment-wise)	Cleantech / Semiconductors	News, Search and Messaging	Others
5	Third Sector name (no. of investment-wise)	Social, Finance, Analytics, Advertising	Social, Finance, Analytics, Advertising	Social, Finance, Analytics, Advertising
6	Number of investments in top sector (3)	7050	282	42
7	Number of investments in second sector (4)	6048	128	30
8	Number of investments in third sector (5)	4985	88	20
9	For point 3 (top sector count-wise), which company received the highest investment?	SoFi	flipkart	merus
10	For point 4 (second best sector count-wise), which company received the highest investment?	Freescall Semiconductor	Quikr	Delta Hydrocarbons

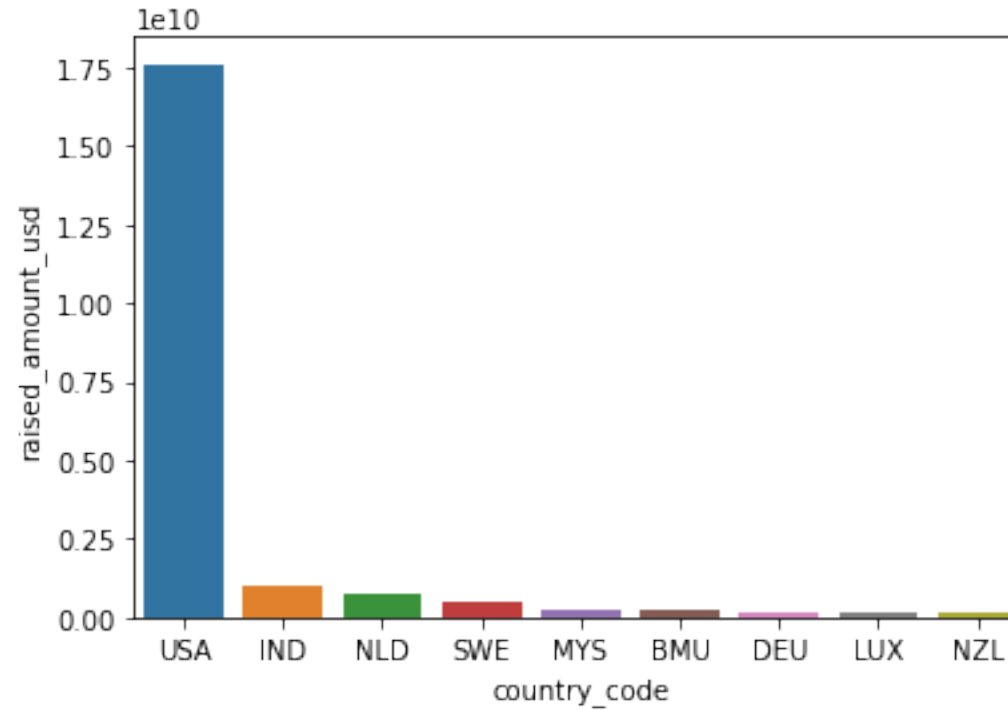
Representative amount of investment vs fund type

Plot 1



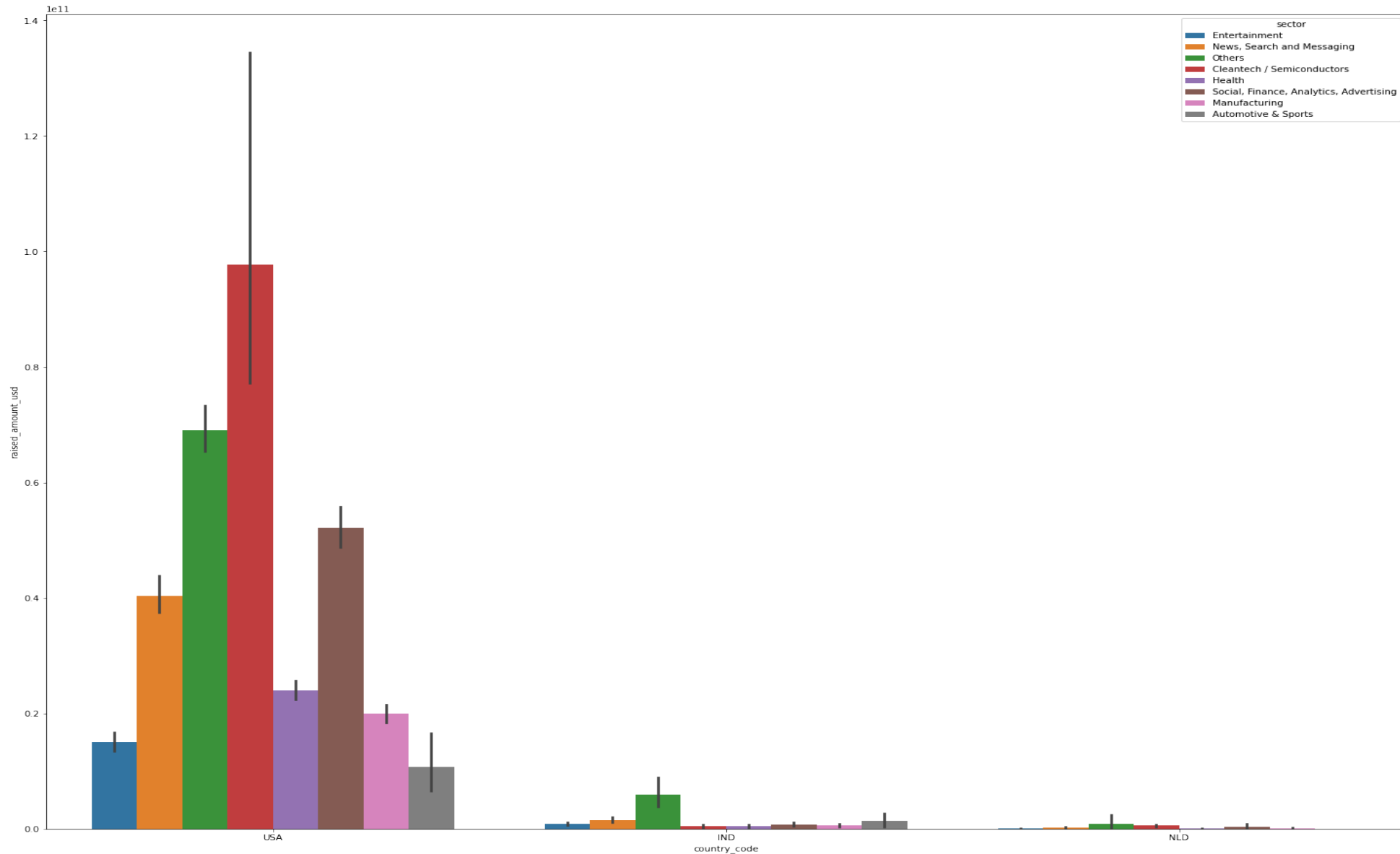
Top 9 countries against the total amount of investments of funding type FT

Plot 2



A plot showing the number of investments in the top 3 sectors of the top 3 countries

Plot 3



<Conclusions>

- Looking at the median and max values , Venture type investment is best suitable for Spark Funds
- Spark funds can invest in USA , India and Netherlands
- Top sectors to invest -
 - Others ,
 - Cleantech / Semiconductors
 - News, Search and Messaging
 - Social, Finance, Analytics, Advertising