INVESTMENT ASSIGNMENT

SUBMISSION

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Spark Funds Investment Analysis

The Data analysis in this presentation is done for Spark Funds, as they wants to make investments in few companies. The CEO of Spark Funds wants to understand the global trends in investments so that she can take the investment decisions effectively

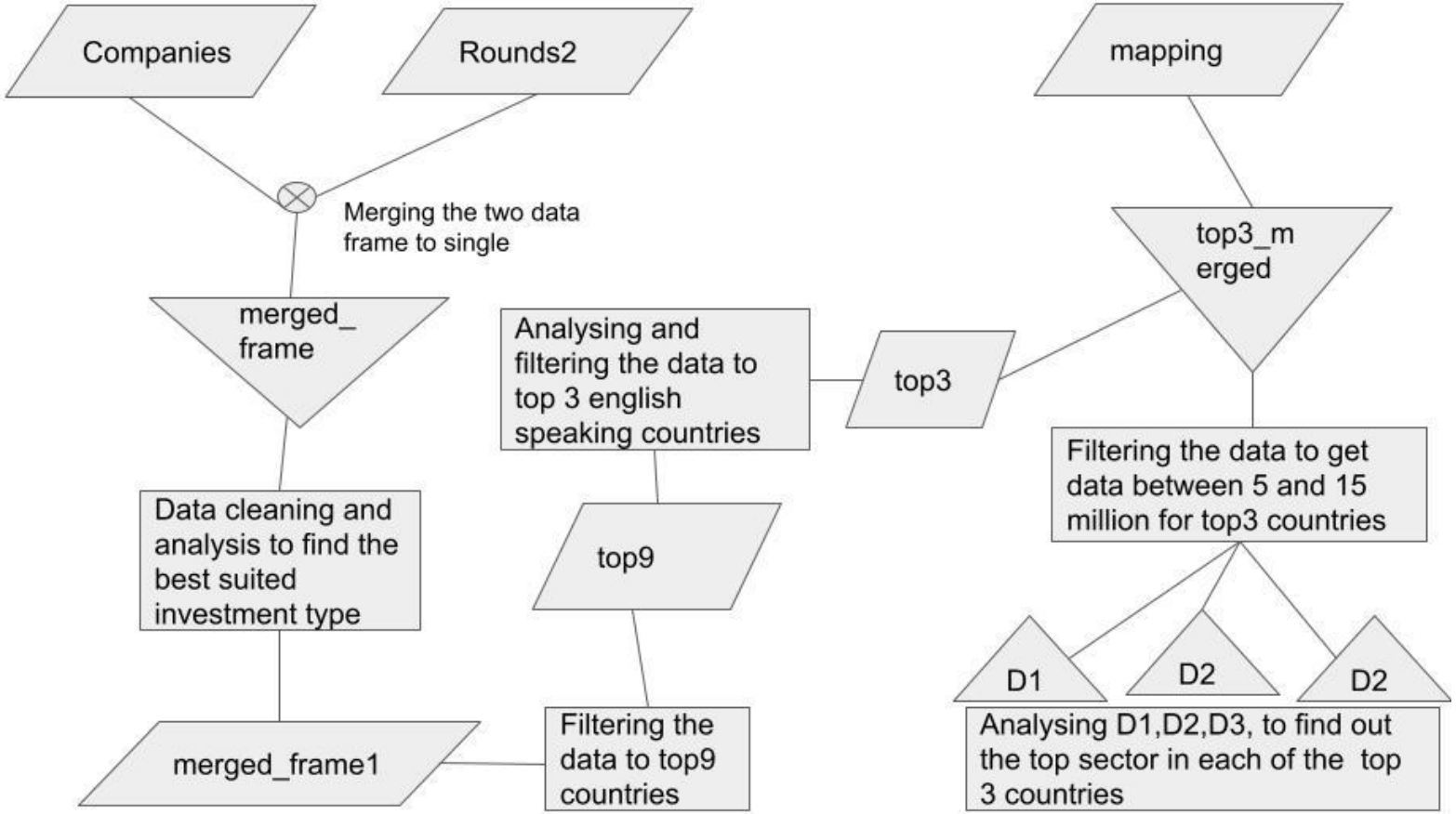
The main constraints put forward by Spark Funds for the investments are:

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.

The main Objective is to analyse the data and find the best sector,best country and the best type of investment for Spark Funds

Flow Chart


Companies
Rounds2
Merging the two data frame to single
merged_ frame
Data cleaning and analysis to find the best suited investment type
merged_frame1
Analysing and filtering the data to top 3 english speaking countries
top9
Filtering the data to top9 countries
top3
mapping
top3_m erged
Filtering the data to get data between 5 and 15 million for top3 countries
D1
D2
D2
Analysing D1,D2,D3, to find out the top sector in each of the top 3 countries

Analysis

Dataset provide:

- Companies.csv
- Rounds2.csv
- mapping.csv

companies: A table with basic data of companies
rounds2: Contains Funding type details
Mapping : This file maps the numerous **category names** in the companies table to eight broad **sector names.**

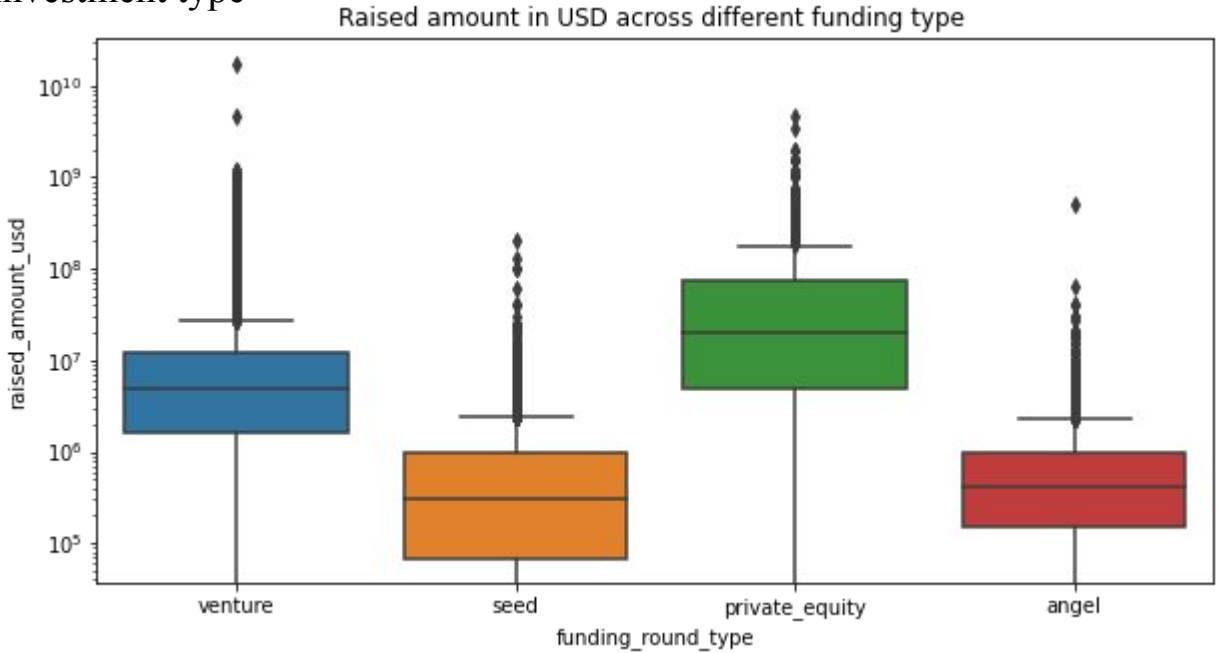
Important stages in Analysis

- Importing the data set
- Merging companies and rounds2 on a unique column(permalink)
- Data cleaning by treating the null values and dropping the not necessary columns.

Analysis

Important stages in Analysis

- Analysing the different type of investments against the amount raised and finding out which is the best suited investment type



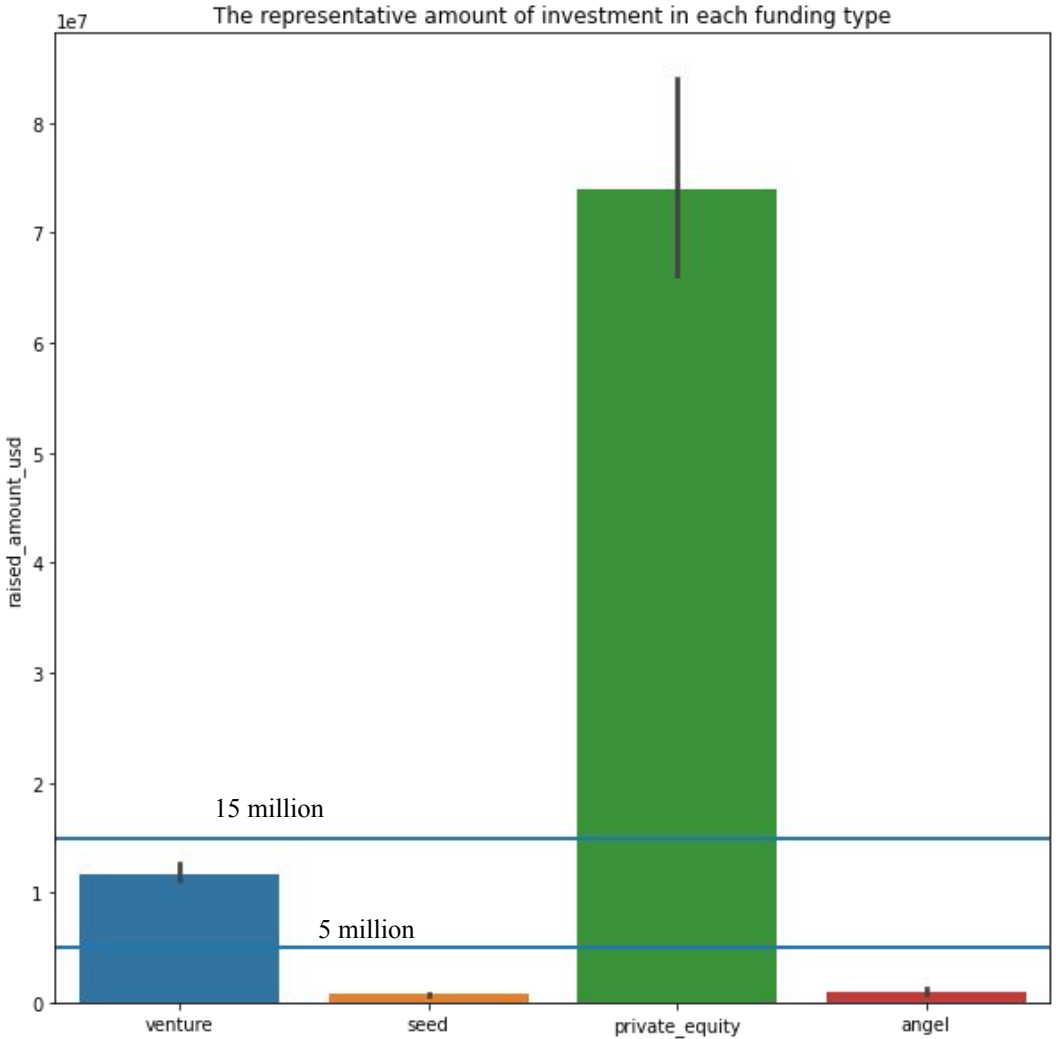
Analysis

Important stages in Analysis

- Filtering the data for top nine countries and analysing the data to find the top three
- english speaking countries having maximum amount of investment
- Merging the dataset with mapping on column main_sector after importing and cleaning mapping data file
- After that we are separating the data-frame to three different data frame based on country to analyse separately for each of the top three countries

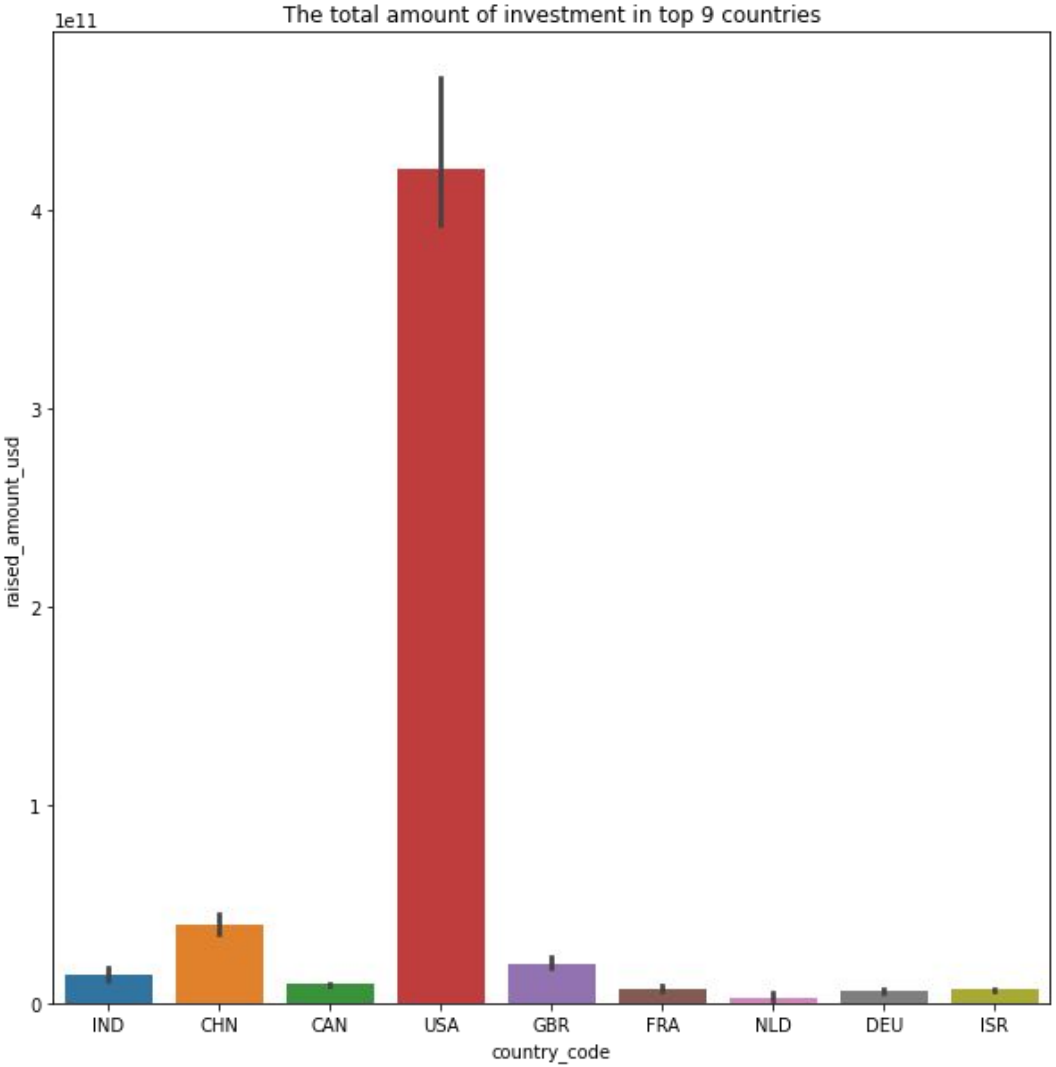
Plot 1
The amount of investment in Venture, Seed, Private Equity and angel

From the plot we can infer that the venture is the best suited investment type for Spark Funds



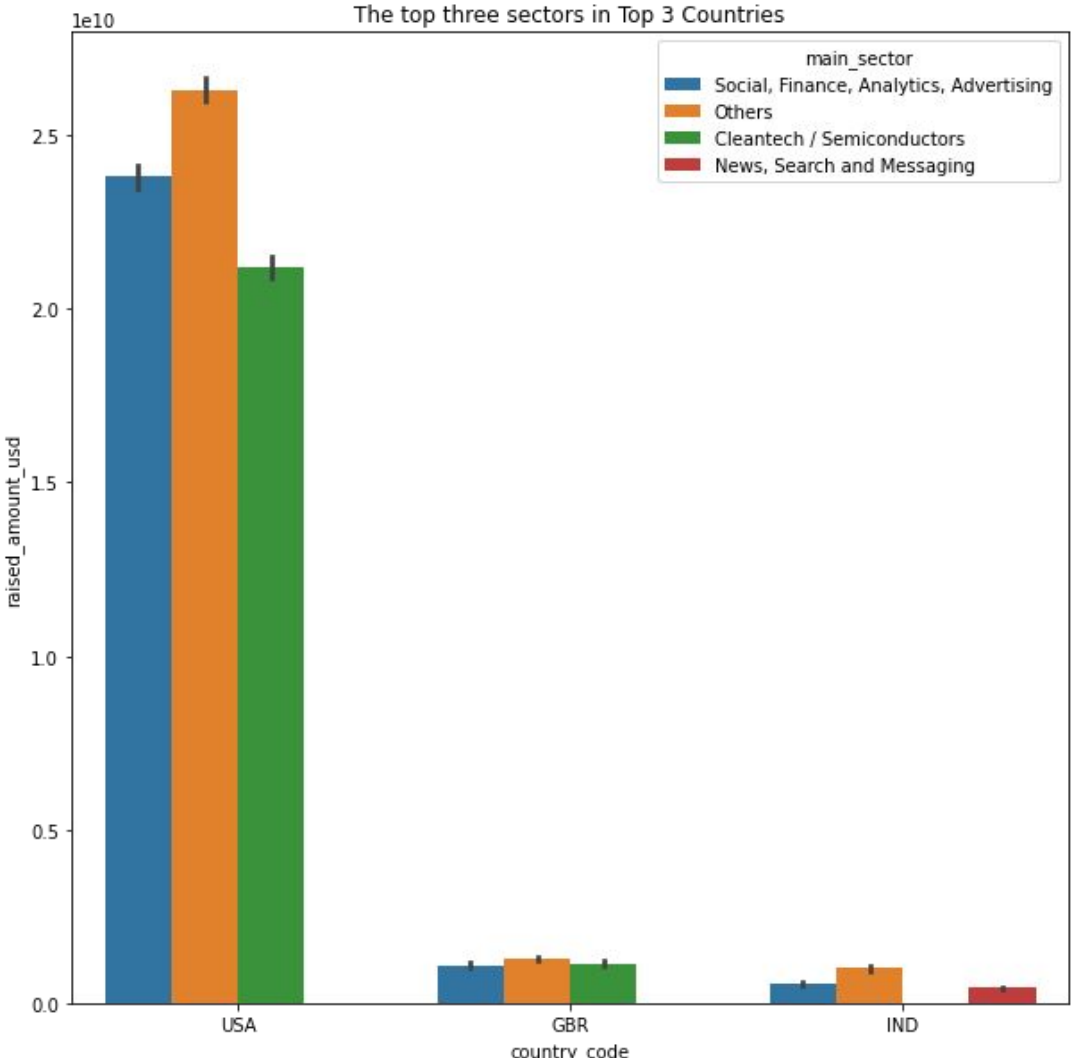
Plot 2: Total amount of Investment in top nine countries

From the plot it is clear that USA has the highest amount of investment followed by China,Great Britain and India.Since China is not an english speaking country ,China can be ignored.



Plot 3: Top three Sectors in Top three countries

The plot shows the top three sectors which got maximum number of investments in the top three english speaking countries(USA,GBR,IND)



Conclusions

From the analyses of given data set we can infer following observations:

- Venture is the most suited investment type for Spark Funds
- USA,Great Britain and India are the top three countries where they can invest
- In USA and Great Britain , Others, Social, Finance, Analytics, Advertising and Cleantech / Semiconductors are the top three investments which got maximum number of investments
- In India Others, Social, Finance, Analytics, Advertising and News, Search and Messaging are the top three investments which got maximum number of investments