

INVESTMENT CASE STUDY

SUBMISSION

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Abstract

Analyze market data of global funding agencies and identify potential safe investment sectors by countries, investment type, best sectors, and recommend it to Sparkfunds (Asset Management Company) to assist with their investments

Input Files

1. Companies.txt files, which has been converted to .csv files based on the tabs between them
2. Rounds2.csv files which contains the sectors, investment amount raised by the companies
3. Mapping files, which contain the major sectors according to the technologies involved

Constraints

1. Check Investments only between 5 to 15 million USD.
2. All countries should have English as official language.

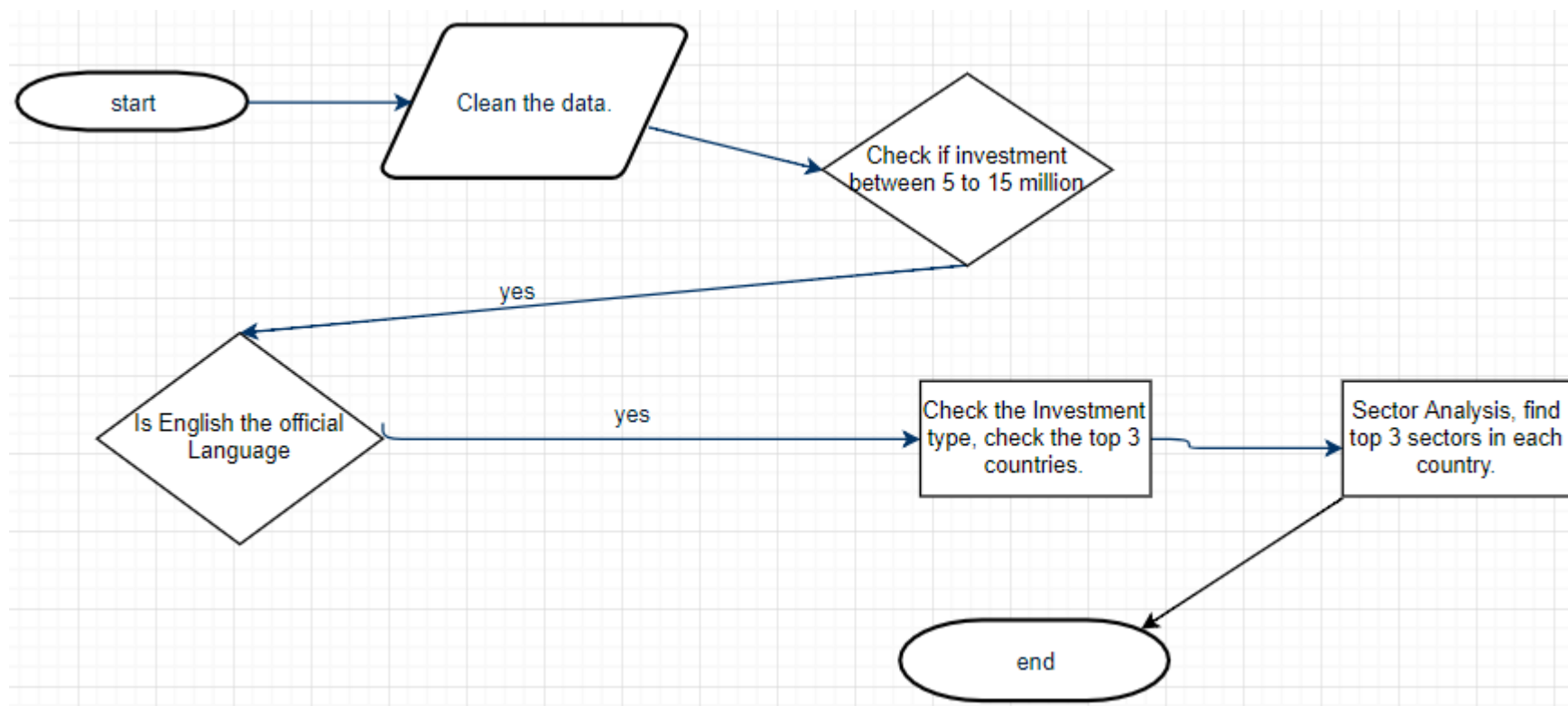
Assumptions

Converted every string to lowercase for the data frames, removed null investment types.

Output

1. Top 3 sectors.
2. Top 3 countries.
3. Top 3 companies.

Steps for Data analysis



Average funding amounts

Venture type funding is analyzed to be the best to invest in with seaborn, barplot analysis.

Averages were used for the above calculation

Average Values of Investments for Each of these Funding Types		
Sl.No	Questions	Answer
1	Average funding amount of venture type	8901784
2	Average funding amount of angel type	7225036
3	Average funding amount of seed type	6614294
4	Average funding amount of private equity type	9346404
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?	Venture type funding is within the reach, the average investment has less deviation with 95% confidence, indicating it is the best position to invest.

Top three English speaking countries

Analysis was done using group by attributes.

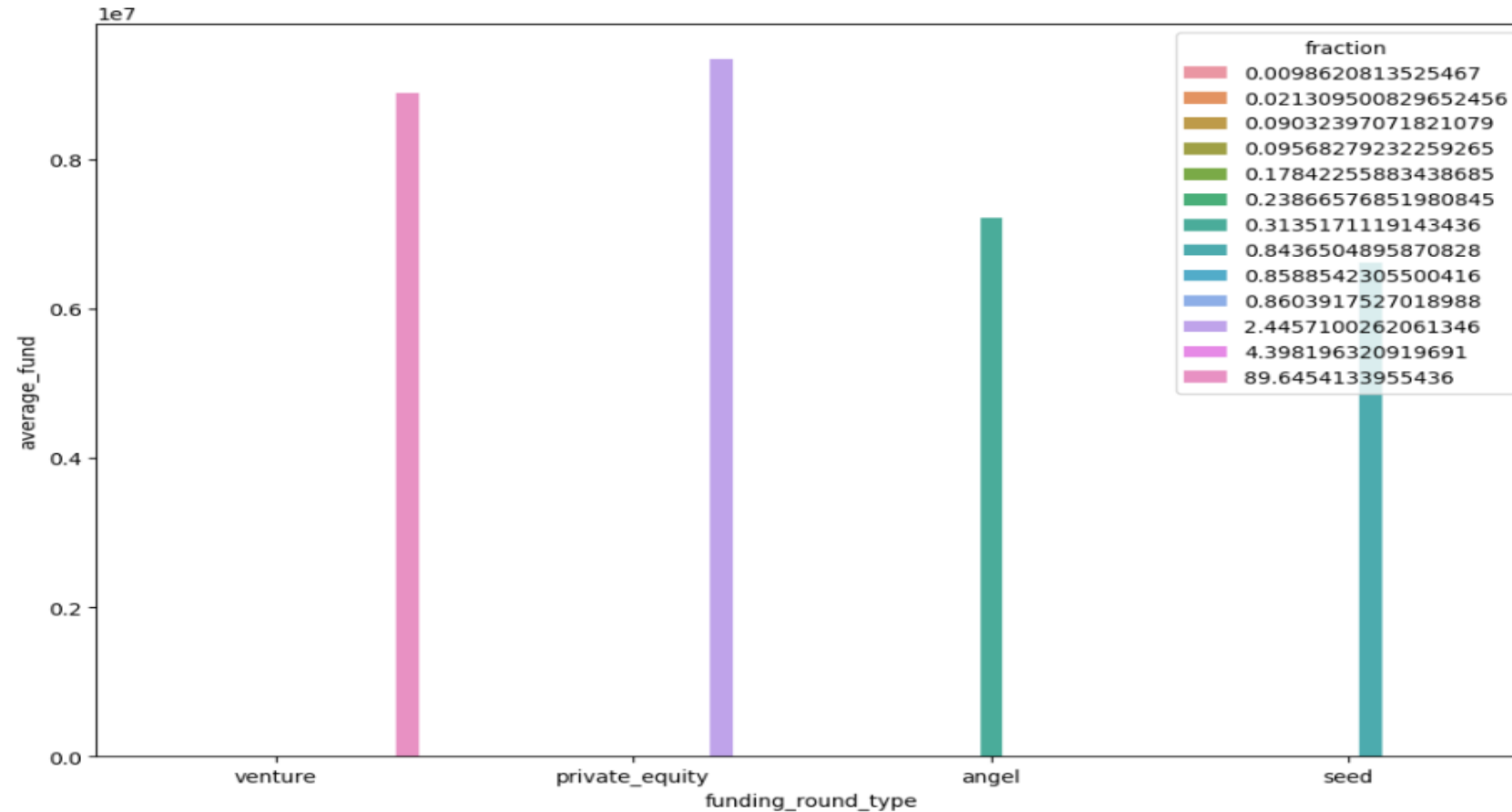
Top 3 English-Speaking Countries		
Sl.No	Questions	Answers
1	Top English speaking country	United States
2	Second English speaking country	United Kingdom
3	Third English speaking country	Canada

Sector Analysis

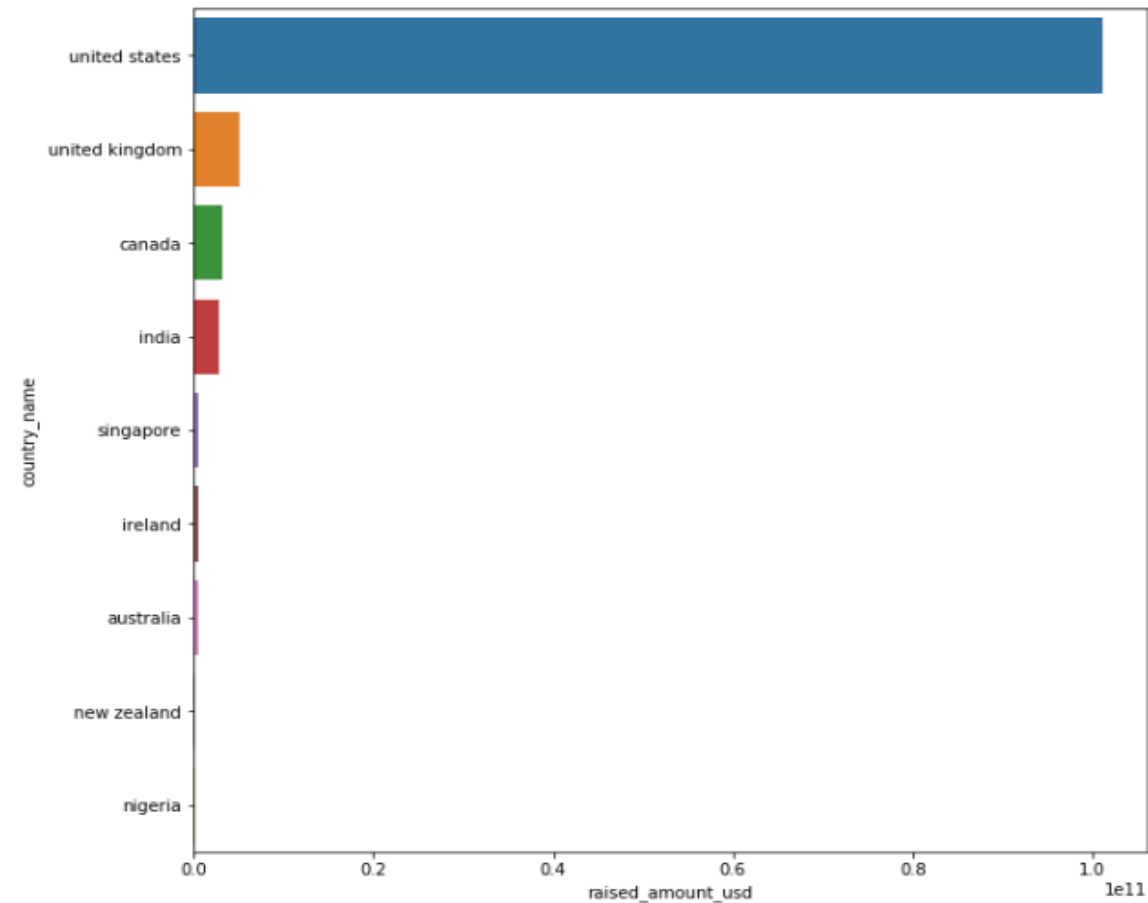
Analysis using 3 different dataframes for countries.

Sector-wise Investment Analysis				
Sl.no	Questions	C1	C2	C3
1	Total number of Investments (count)	10404	542	361
2	Total amount of investment (USD)	93176222534	4728734985	3100755116
3	Top Sector name (no. of investment-wise)	others	others	cleantech / semiconductors
4	Second Sector name (no. of investment-wise)	cleantech / semiconductors	cleantech / semiconductors	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)	2732	137	99
7	Number of investments in second sector (4)	2145	114	99
8	Number of investments in third sector (5)	1813	95	50
9	For point 3 (top sector count-wise), which company received the highest investment?	virtustream	electric cloud	fresco microchip
10	For point 4 (second best sector count-wise), which company received the highest investment?	biodesix	eusa pharma	quickplay media

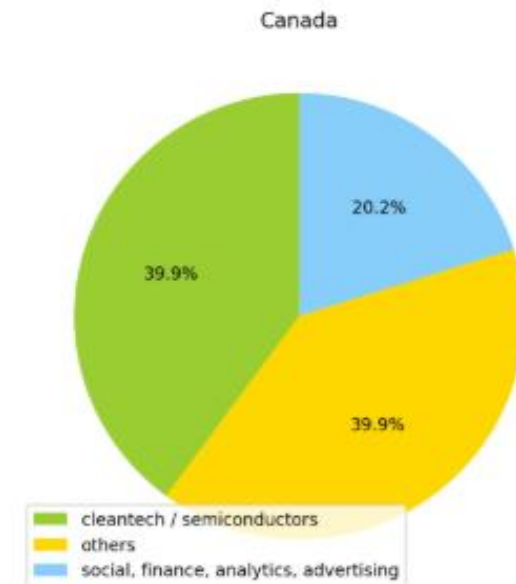
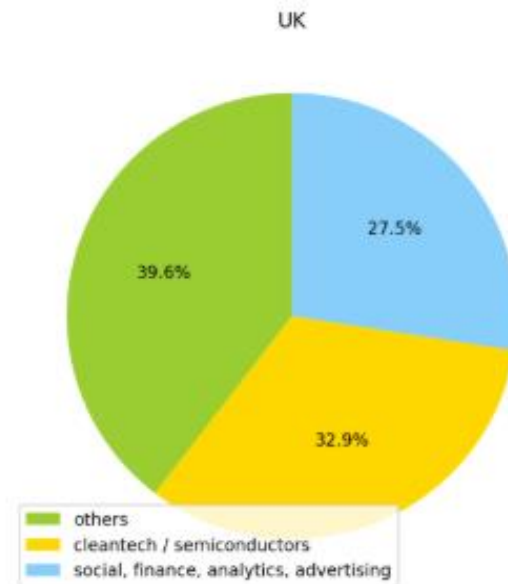
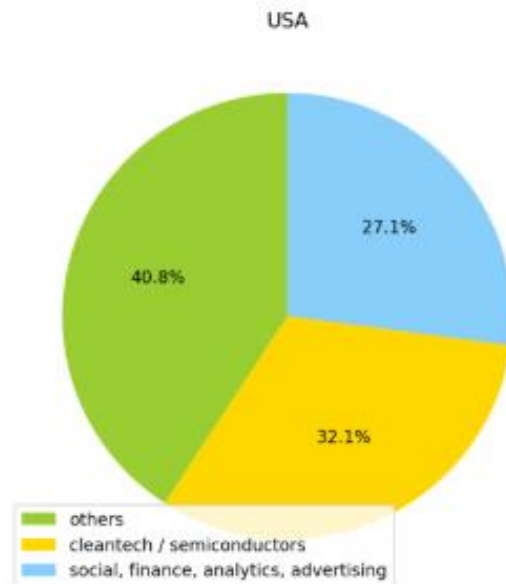
Plot of investment fraction and average investment.



Top 9 countries according to the amount of investments done



Investment of top 3 sectors in top 3 countries.



Best companies to invest, country wise.

The best company to invest in for spark funds would be Virtustream, Electric cloud, Fresco microchip from USA in venture sector.