

# INVESTMENT ASSIGNMENT

## SUBMISSION

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## Abstract

- The objective is to identify the best sectors, countries, and a suitable investment type for making 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'.

## Problem solving methodology.

1. Read data from companies.txt and rounds.csv and create a master data frame after merging both the dataframe.
2. Find most suitable funding type if investment is between 5 to 15 million USD.
3. Find top 3 English speaking countries.
4. Extract the primary sector of each category list from the category\_list column and putting in master frame.
5. Use the mapping file 'mapping.csv' to map each primary sector to one of the eight main sector.
6. Removing '0' from category\_list e.g. A0lytics=>Analytics, as a data cleaing part.
7. Mapping main\_sector in master frame from mapping frame.
8. Now, find top sector, 2<sup>nd</sup> best, 3<sup>rd</sup> best sector based on count of investments along with number of investments in those sectors.
9. Now, based on above data, we need to find best suitable sector to invest in for top 3 English speaking countries and plot based on that.

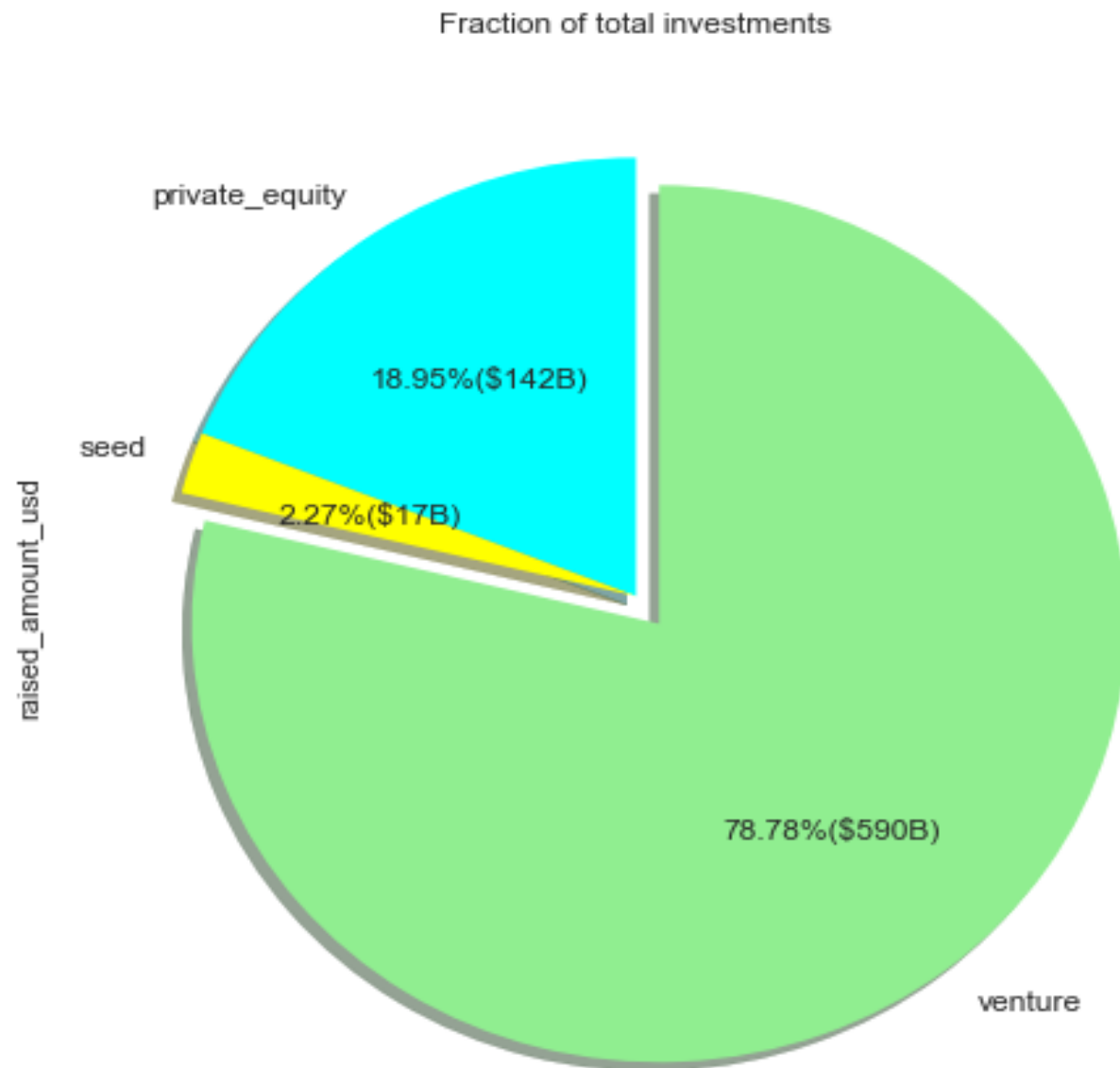
## Analysis

- **Investment type analysis:** Comparing the typical investment amounts in the venture, seed, angel, private equity etc. so that we can choose the type that is best suited for their strategy.
- **Country analysis:** Identifying the countries which have been the most heavily invested in the past. Also top 3 English speaking countries because of the ease of communication with the companies it would invest in.
- **Sector analysis:** Understanding the distribution of investments across the eight main sectors, so that we can choose which sector is heavily invested and also decide which sector is best suitable to invest in.

Plot 1

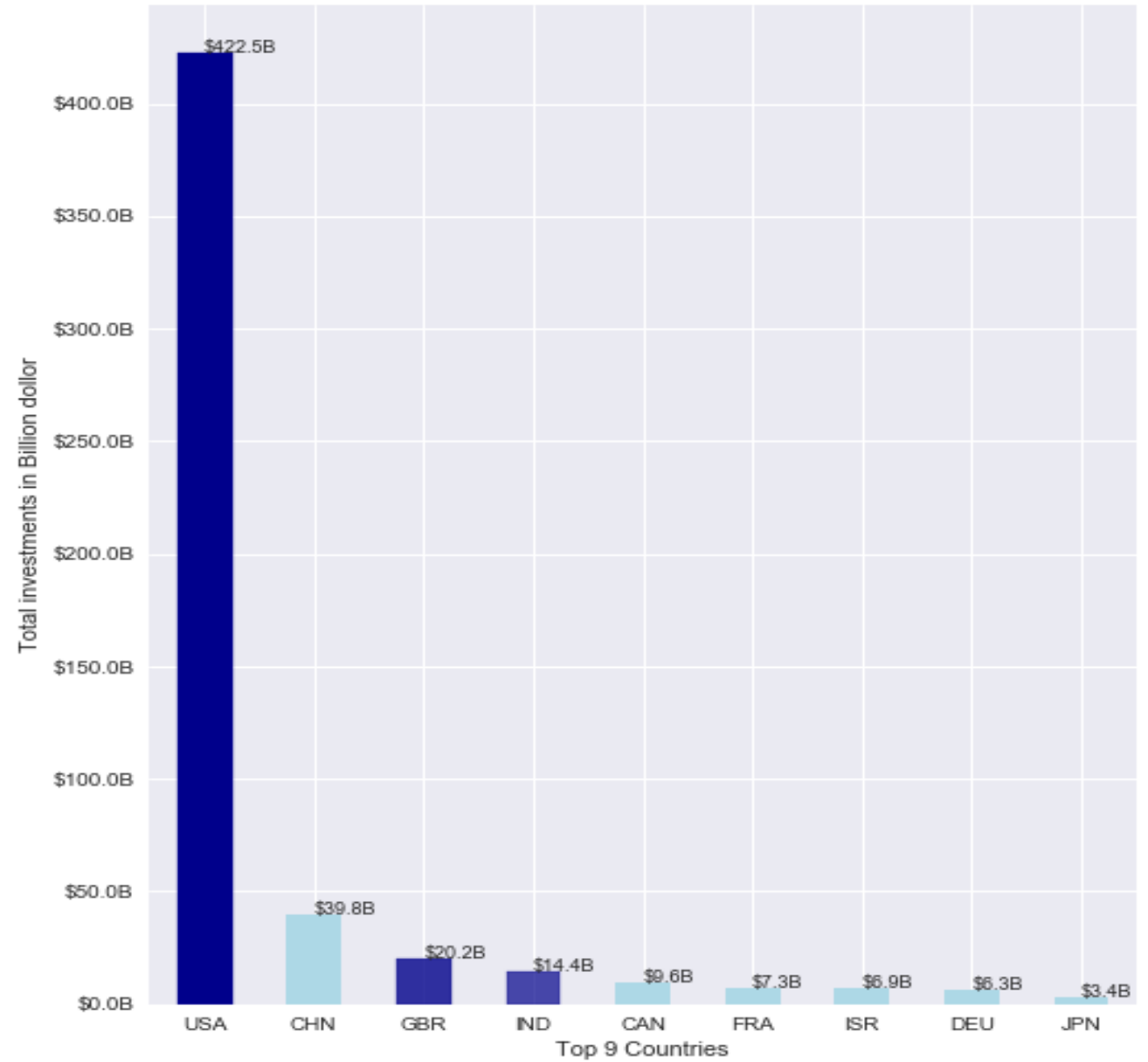
From this diagram, we can see that 'venture' is the best suitable funding type among private equity and seed.

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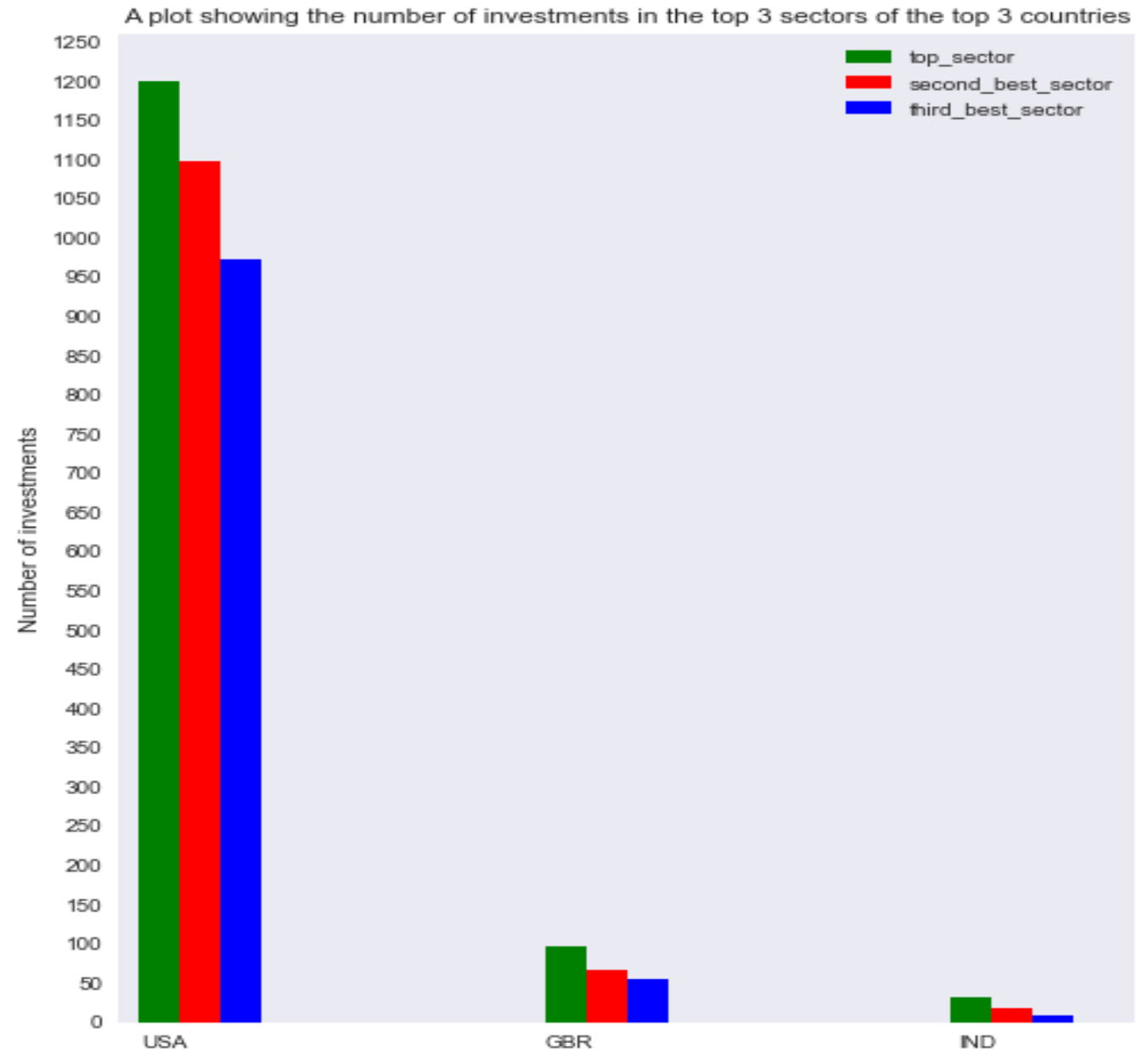
## Plot 2

This plot showing the top 9 countries against the total amount of investments of funding type venture. We can clearly see top 3 countries here.



## Plot 3

This plot is showing the number of investments in the **top 3 sectors** of the **top 3 countries** on one chart (for the chosen investment type FT).



## Conclusions

Based on previously shown diagrams, We can find what are the best sectors, countries, and a suitable investment type for making investments.