



# INVESTMENT CASE STUDY SUBMISSION

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#### Abstract

- Objective: Investments analysis for Spark Funds, an asset management company, to facilitate taking investment decisions effectively
- Analysis is done to address the constraints and preferences as follows:
  - Invest in the funding round type that attracts average funding within the range of 5 to 15 million USD
  - Invest only in English-speaking countries that attract maximum number of investments
  - Invest in sectors that attract maximum number of investments
- Outcome would be to recommend the companies best suited for investments based on the above constraints and preferences





#### Problem solving methodology

## Understand, Analyze and clean data

- Case matching for the common column in merging
- Clean category list data to remove "0"character and blanks
- Converting wide data format into long data format for mappings

Select data for the preferred investment type

- Should be one of the types venture, seed/angel, private equity
- Average investment per type within 5 to 15M USD

Narrow down analysis based on country preference

- Country where maximum total investments are done
- English speaking country

Apply sector analysis intelligence to the filtered data

 Main sectors with highest number of investments Recommend companies aligning to business objectives

- Preferred country
- Preferred investment type
- Preferred sector





## Analysis

• STEP 1- The funding type, among preferred ones where average investment is within 5M to 15M USD is "Venture"

preferred_funding_round	average_investment_amount
angel	958694.5
private_equity	73308593
seed	719818
venture	11748949



# **UpGrad**

## <Analysis>

- STEP2 Top 4 countries with maximum total funding in "venture" type are USA, CHN, GBR, IND.
  - Remove china as not a English speaking country

	Total_funding_vent
country_code	ure
USA	422510842796
CHN	39835418773
GBR	20245627416
IND	14391858718
CAN	9583332317
FRA	7259536732
ISR	6907514579
DEU	6346959822
JPN	3363676611





#### <Analysis>

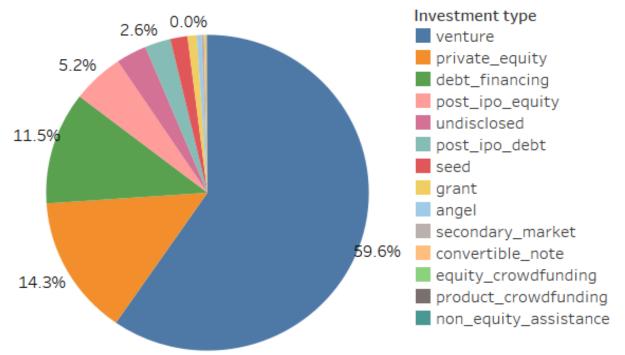
- STEP3 Maximum count of investment 5M to 15M in 'Venture' type
  - USA: Count 12063, Total 107757097294 USD
  - GBR :Count 621, Total 5379078691 USD
  - IND :Count 328, Total -2949543602 USD
- STEP4 Top 3 sectors based on count of investment
  - USA "Others", "Social, Finance, Analytics, Advertising"," Cleantech / Semiconductors"
  - GBR "Others", "Social, Finance, Analytics, Advertising"," Cleantech / Semiconductors"
  - IND "Others", "Social, Finance, Analytics, Advertising", "News, Search and Messaging"
- STEP5 Companies having maximum funding in these sectors are found



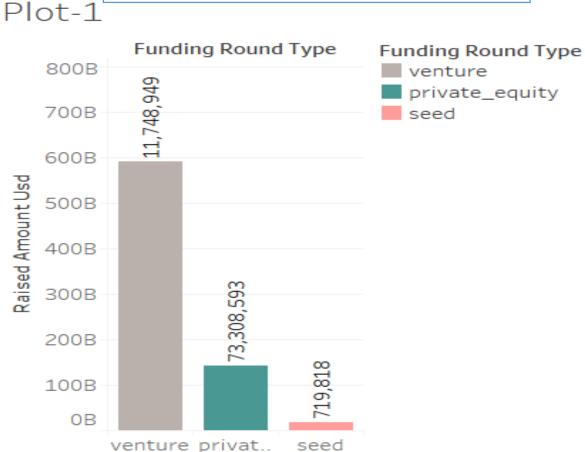


## Results: Plot-1 for Avg. Investment by Funding Type

Fraction of Total investment by Investment Funding Type



Average Investment by Funding Type

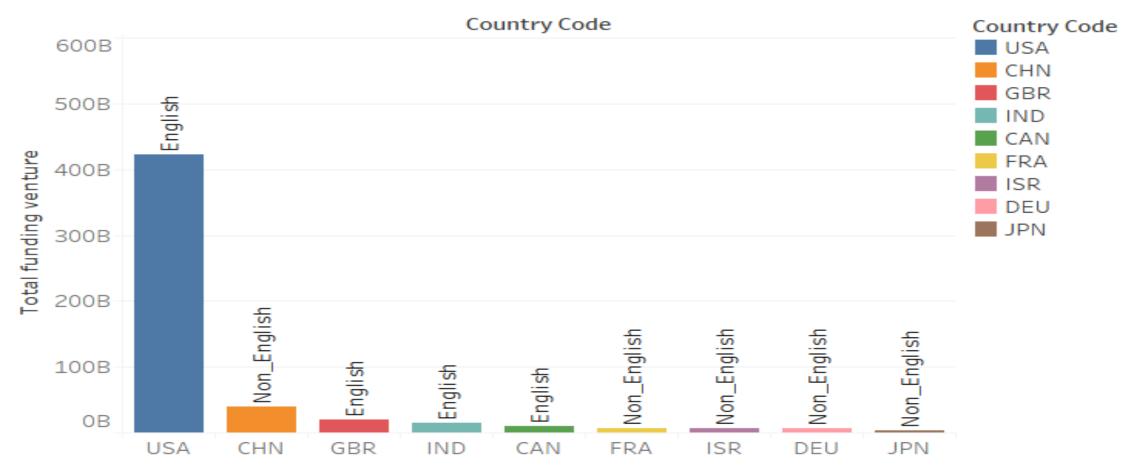






## Results: Top 3 Countries against Investment Type



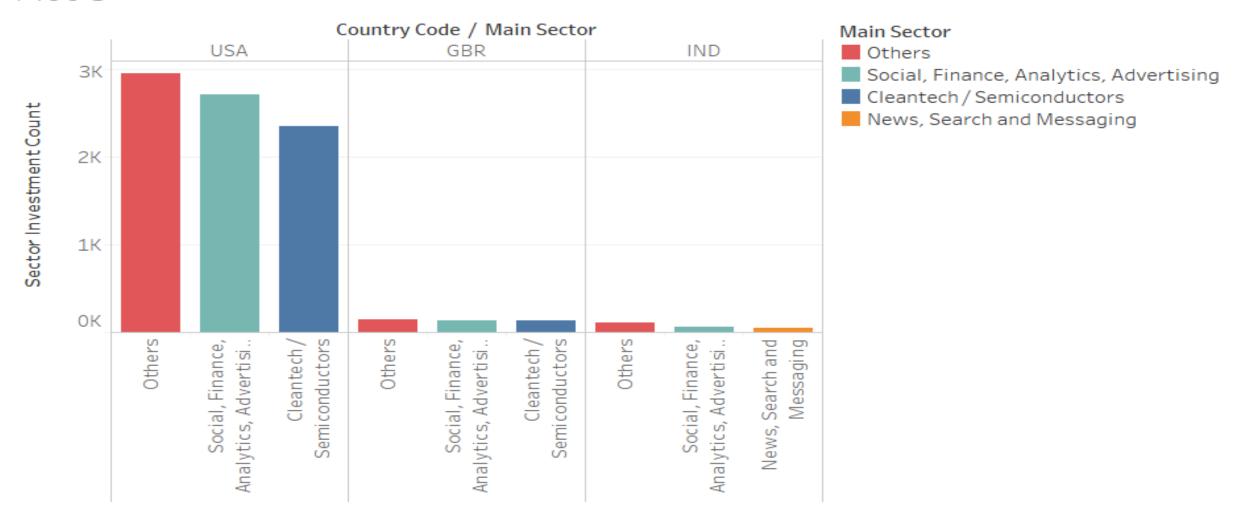






#### Results: No. of Investment in top 3 sector of top 3 Countries

Plot-3







#### Conclusions

#### • Outcomes:

- Preferred investment type: venture
- Preferred countries: USA, GBR, IND
- Top 2 preferred sectors across all preferred countries: Others and Social, Finance, Analytics, Advertising
- Preferred companies

USA	GBR	IND
Virtustream	Electric Cloud	FirstCry.com
SST Inc. (Formerly	Celltick	
ShotSpotter)	Technologies	Manthan Systems