



# INVESTMENT CASE STUDY SUBMISSION

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# **Basic Understanding: SPARK FUNDS**

Sparks Funds, an asset management company is looking for strategic investment options. Keeping their stipulations in mind, herein are their objectives for which various observations are to be drawn.

## **Investment Strategy**

- To understand the Global trends in investments per round between 5 to 15 Million.
- To identify the leading sectors in various countries, and suitable investment type.
- To identify the investments in English Speaking countries to ease functionality.
- Identify suitable Investment type like venture, seed, private equity etc.
- Providing country details of past investments made.
- Provide best sector investment potential under top 3 countries.





## **Problem Solving Analysis**

The team came together to brainstorm and ideate, leading to a stream-lined workflow keeping business objectives in view and understanding data.

#### **Understanding Data:**

- Companies this dataset has information about companies and their corresponding categories
- Rounds2 Investment preferences of the companies. Like raised amount, investment type, etc.

#### Workflow:

- Gather data for the analysis
- Clean the data for readability
- Collate data in to a model
- Filter model based on Investment type, Country and Sector
- Identify best possible investment options
- Plot on the option for graphical representation.
- Account for missing mappings in the mapping file.

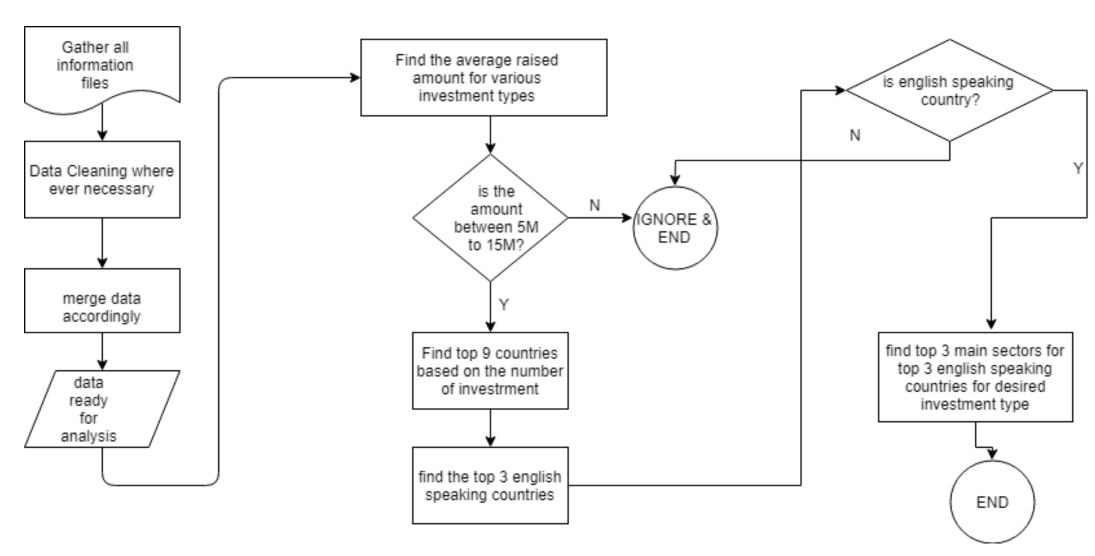
#### **Tools used:**

- RStudio is used for data cleansing and modelling
- Tableau is used for plotting the results





## Flowchart







# **Data Model Analysis**

Data quality is crucial to carry out further analysis. Therefore the data needs to be cleansed and built into a suitable model.

#### **Building the model in RStudio:**

- Data Import Importing data from files.
- Data Cleansing –Handling mostly NA values and other inapplicable data.
- Data Merging Merge companies and investment round data to get amalgamated dataset based on the unique key.
- Data Mapping Mapping dataset for identifying sectors and investment preferences. Working on the missing mappings by mapping the primary sectors to the nearest logical main sector.
- Filtering To identify preferred investment options for Spark Funds to invest.
- Exporting Data For tableau plotting, data is to be exported in required format.





# **Data Model Analysis**

### **Model Objectives:**

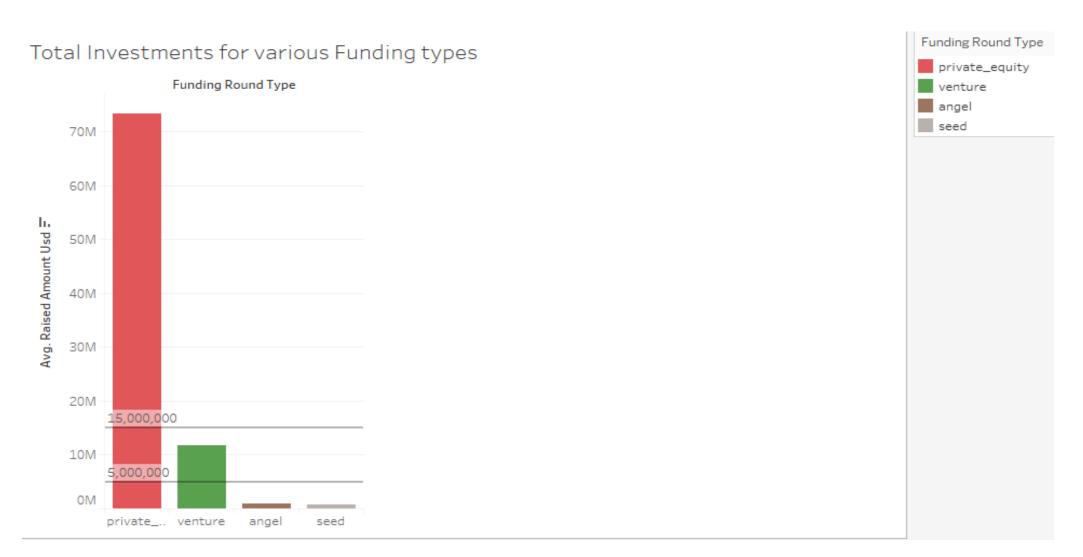
Based on above model, following are the primary goals:

- Investment type analysis: Identifying best suited categories for the investment.
- Country Analysis: Listing countries having highest past investments.
- Sector Analysis: Understanding of investment distribution among sectors.





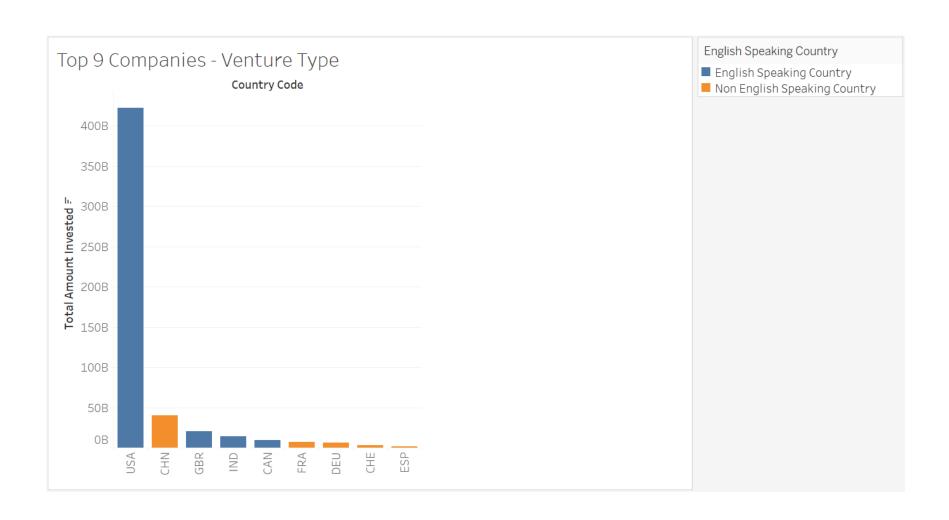
**Results:** A plot showing the fraction of total investments (globally) in venture, seed, and private equity, and the average amount of investment in each funding type







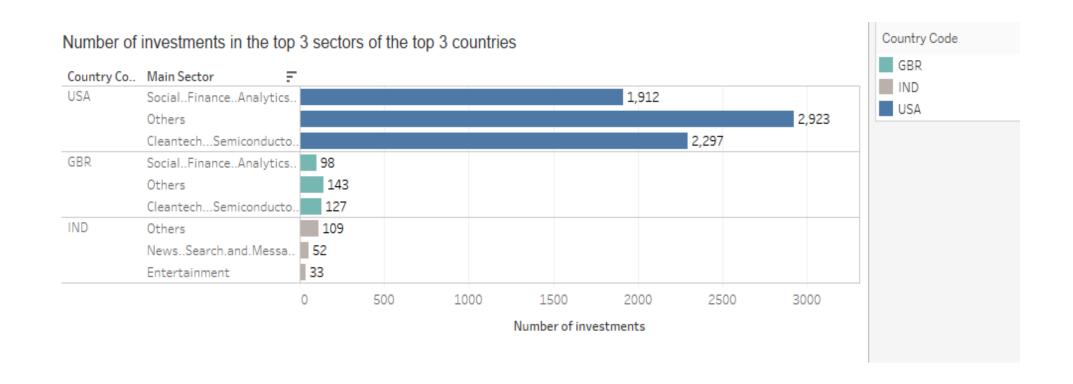
**Results:** A plot showing the top 9 countries against the total amount of investments of funding type FT. This should make the top 3 countries very clear.







**Results:** A plot showing the number of investments in the **top 3 sectors** of the **top 3 countries** on one chart (for the chosen investment type - VENTURE).







## Conclusions

Based on the model created and studied, below are the representations done:

- The Suitable option for investment type for Spark Funds within the range of 5M to 15M is the Venture Funding Type.
- The Top 3 English speaking countries are USA, UK/GBR & INDIA.
- Inferences drawn based on analysis of the suitable sectors for Funding are :

#### 1. USA:

- i. Others
- ii. Cleantech/Semiconductors
- iii. Social/Finance/Analytics/Advertising
- 2. **GBR**:
- i. Others
- ii. Social/Finance/Analytics/Advertising
- iii. Cleantech/Semiconductors

#### 3. IND:

- i. Others
- ii. News..Search.and.Messaging
- iii. Entertainment