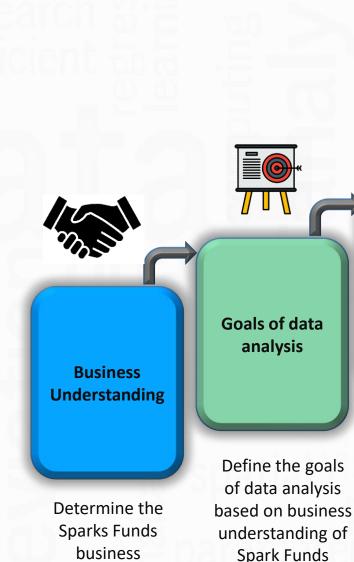






Problem Solving Methodology — Flow Diagram



objective clearly

Understanding and Explore Raw Data

Explore and verify
data quality
Collect Relevant
data from
Companies,round
s2 and mapping
file

Data Preparation

Integrate
data(Create Main
Data frame)
Select Relevant
data (drop others)
Clean and Format
data

Model Data and Visualize Result

<u></u>

Data Modelling and get the necessary information and Visualize the data by plotting graphs Simulate
Results
and
Presentation

Simulate and Analyze the results and make presentation and make final decision



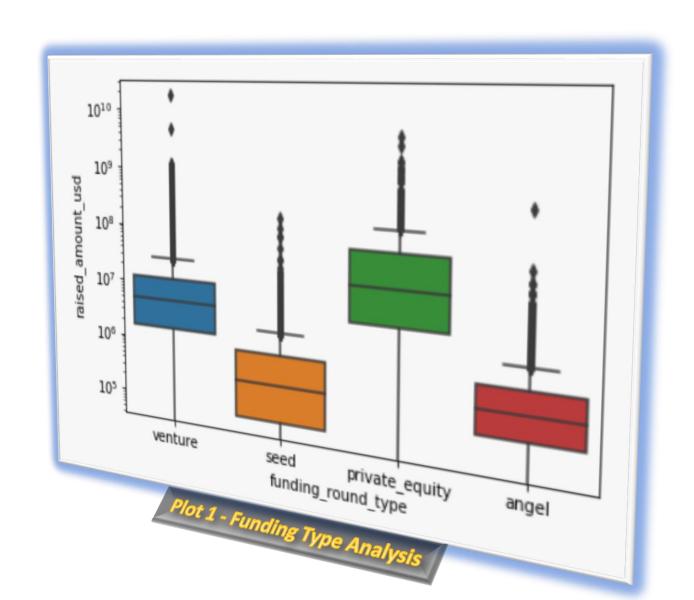






#### **Plot1 - Results: Funding Type Analysis**

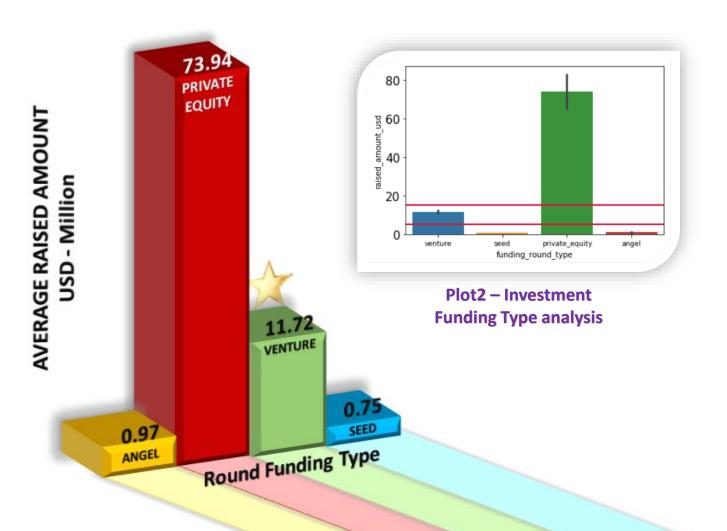
- Box Plot Graphical rendition of Raised Amount USD based on the Funding Round Type
- ☐ Spark Funds wants to choose one of these [
  Venture | Seed | Private Equity | Angel ] four investment types for each potential investment they will make







#### **Investment Based Funding Type Analysis**



## Plot2 - Results: Investment Funding Type Analysis

- ☐ Calculated the most representative value of the investment amount for each of the four funding types (venture, angel, seed, and private equity)
- □ Based on the most representative investment amount, "Venture investment type is the most suitable for Spark Funds".
   Considering that Spark Funds wants to invest between 5 to 15 million USD per investment round

Round Funding Type	Average Funding amount USD - Million
Angel	0.97
Private_equity	73.94
Venture	11.72
Seed	0.75



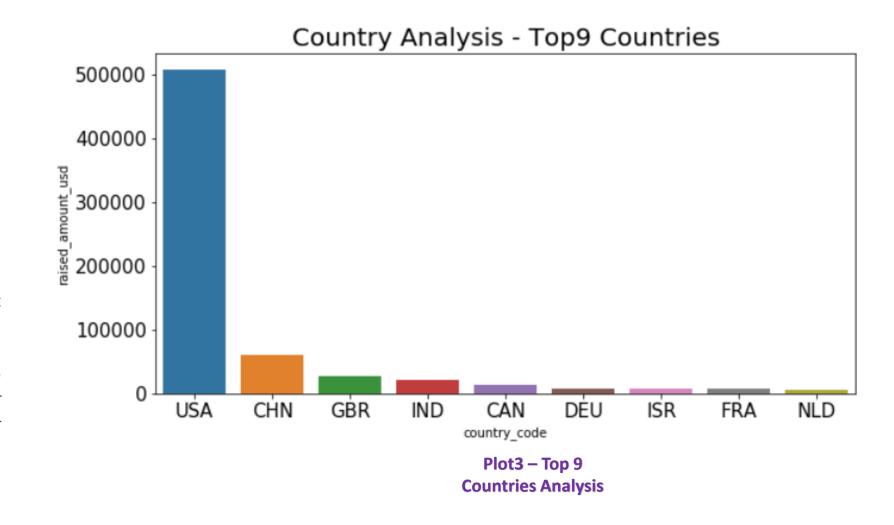


#### **Top 9 Countries — Investment Type Venture**



#### **Results: Country Analysis**

- Spark Funds wants to invest in countries with the highest amount of funding for the chosen investment type.
- "Here are the Top 9 countries with the highest amount of funding for the chosen investment type – Venture across all sectors"







### **Top 3 English Speaking Countries**

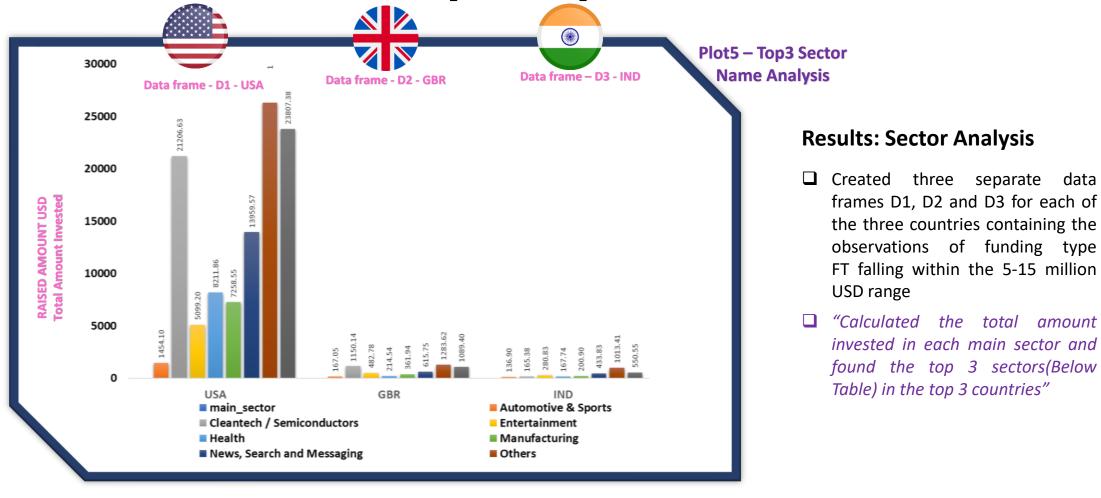
**Plot4 – World Top3 English Speaking Countries** 







#### **Sector Analysis - Top3 Sector Names**

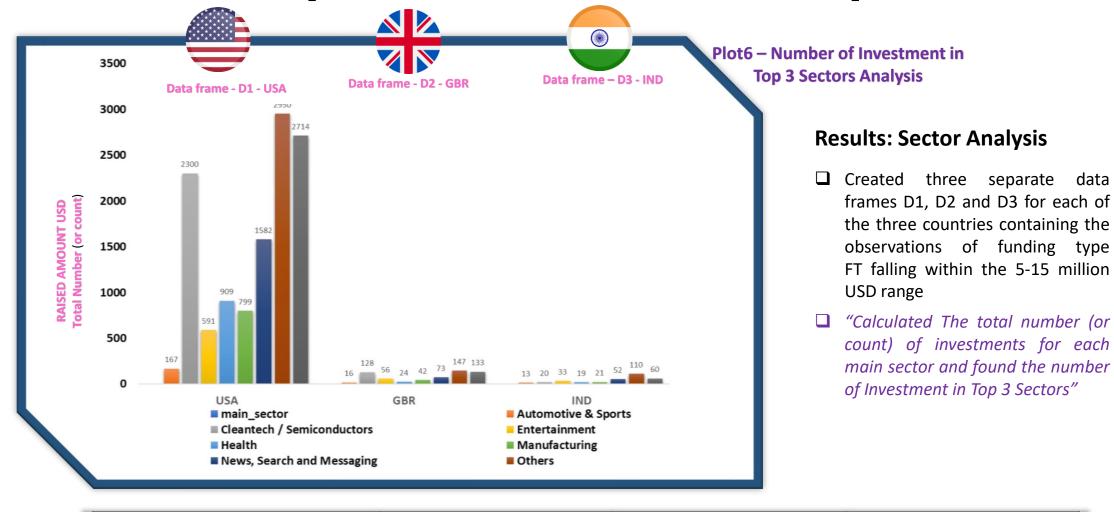


Countries	USA	GBT	IND
Top Sector name (no. of investment-wise)	Others	Others	Others
Second Sector name (no. of investment-wise)	Social, Finance, Analytics, Advertising	Social, Finance, Analytics, Advertising	Social, Finance, Analytics, Advertising
Third Sector name (no. of investment-wise)	Cleantech / Semiconductors	Cleantech / Semiconductors	News, Search and Messaging





### Sector Analysis - Number of Investment in Top3 Sectors



Countries	USA	GBT	IND
Number of investments in top sector (3)	2950	147	110
Number of investments in second sector (4)	2714	133	60
Number of investments in third sector (5)	2300	128	52



# Sector Analysis - Top sector count-wise Company received the highest investment





Plot7 – Top Company received the highest investment in Top3 Countries



## Sector Analysis - second best sector count-wise Company received the highest investment





Plot8 – SecondTop Company received the highest investment in Top3 Countries



#### **Conclusions**



In Spark Funds Data Analysis based on business objective, defined the goals, examine the large amount of data provided, and even plot statistical models in an attempt to explain what is observed during the entire process

Based on analysis, Suggesting Spark Funds to make investments in Funding Type - Venture(5 to 15 million USD)

Top3 English speaking countries - USA,GBR,IND



**Top3 Sector Names in Selected English Speaking Countries** 

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

**Top 2 Companies Received Highest Investment** 

USA – /organization/virtustream | /organization/shotspotter

**GBR** – /organization/electric-cloud | /organization/celltick-technologies

IND - /organization/firstcry-com | /organization/manthan-systems

IND -0