

1. Your Friend has developed the Product and he wants to establish the **product startup** and he is searching for a perfect location where getting the investment has a high chance. But due to its financial restriction, **he can choose only between three locations - Bangalore, Mumbai, and NCR**. As a friend, you want to help your friend deciding the location. NCR include Gurgaon, Noida and New Delhi. **Find the location where the most number of funding is done**. That means, find the **location where startups has received funding maximum number of times**. **Plot the bar graph between location and number of funding**. Take city name "Delhi" as "New Delhi". Check the case-sensitiveness of cities also. That means, at some place instead of "Bangalore", "bangalore" is given. Take city name as "Bangalore". For few startups multiple locations are given, one Indian and one Foreign. Consider the startup if any one of the city lies in given locations.

Ans:

My friend want to choose a location in between Bangalore, Mumbai and NCR( Gurgaon, Noida and New Delhi). From data it can be observed that Bangalore is the no1 destination for the funding, 49.71 % funding happens in the Bangalore and also total number of funding rounds happens largest in the city which is 635.

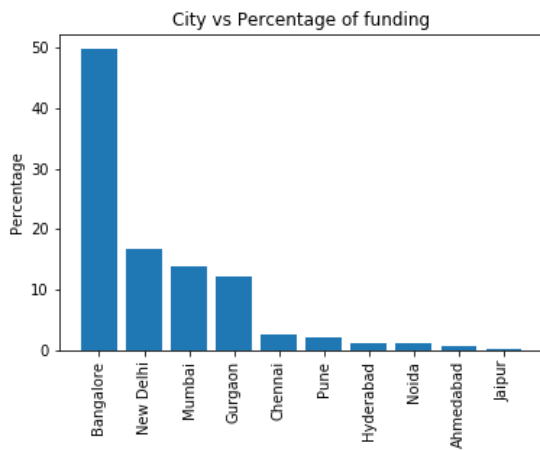


Fig 1

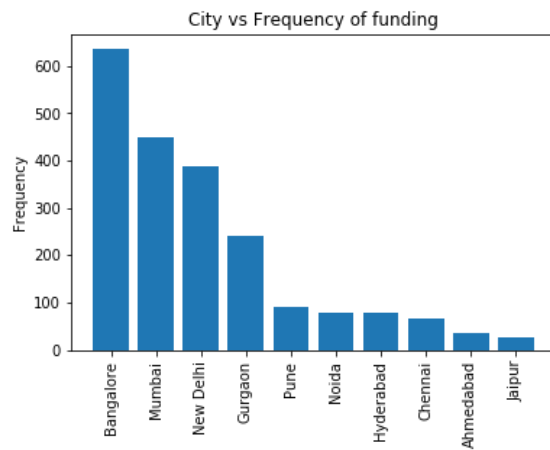


Fig 2

Method of analysis:

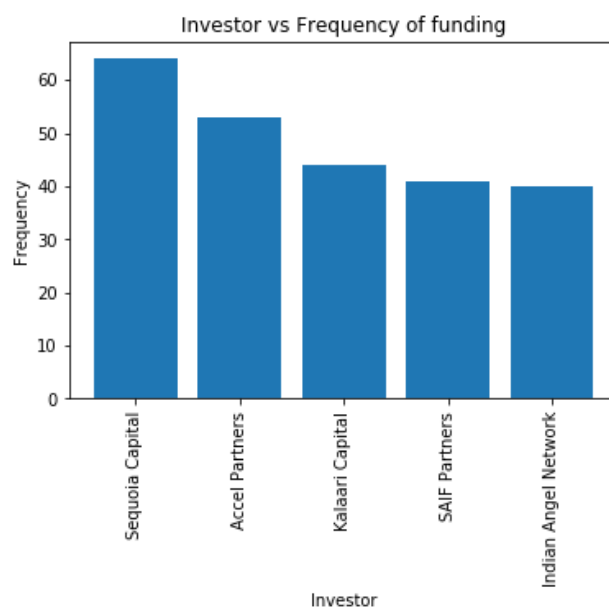
- Import packages that need for the analysis like pandas, numpy and matplotlibs
- Read Dataframe using read\_csv()
- Drop Nan values present the 'CityLocation' column using dropna(), inplace=True Basically use for to changes in the dataframe itself
- Make function who can remove '/' that present the 'CityLocation' column
- Apply this function in 'CityLocation' column using apply function
- Replace the wrong city names using replace function
- Modify the 'AmountInUSD' column and make it integer
- Use groupby() function to calculate the total sum of amount with respect to the city.
- Find the index & values from the groupby(), index is city name & values is city wise investment sum
- Plot the graph using plt.bar()

Q2 Even after trying for so many times, your friend's startup could not find the investment. So you decided to take this matter in your hand and try to find the list of investors who probably can invest in your friend's startup. Your list will increase the chance of your friend startup getting some initial investment by contacting these investors. **Find the top 5 investors who have invested maximum number of times (consider repeat investments in one company also).** In a startup, multiple investors might have invested. So consider each investor for that startup. Ignore undisclosed investors.

Ans:

The investors who are very much active in the investment are in **Sequoia Capital, Accel Partners, Kalaari Capital, SAIF Partners, Indian Angel Network.**

Sequoia Capital	64
Accel Partners	53
Kalaari Capital	44
SAIF Partners	41
Indian Angel Network	40



Method of analysis:

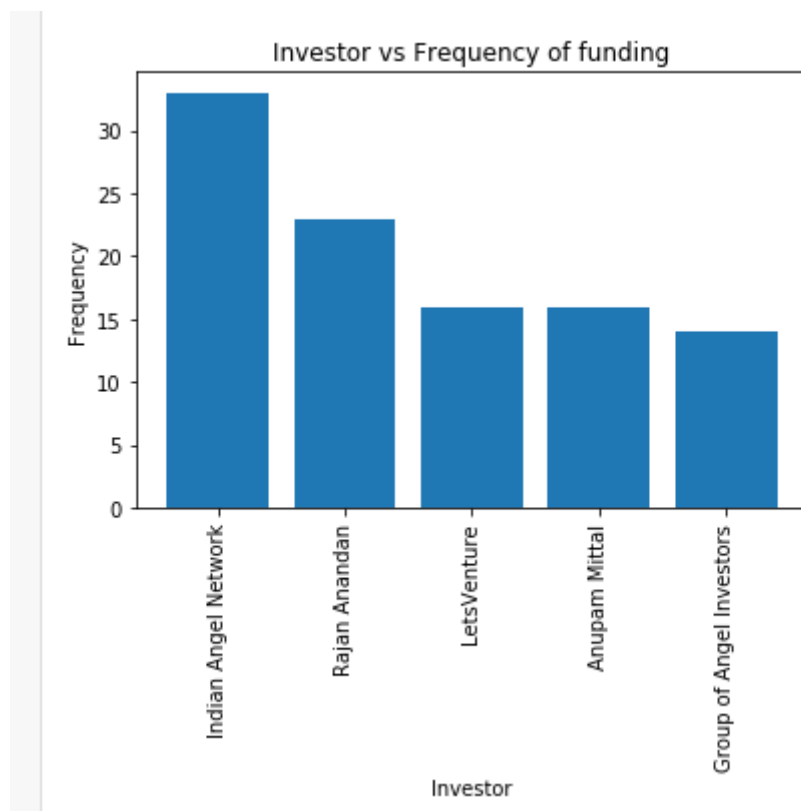
- Import packages that need for the analysis like pandas, numpy and matplotlibs
- Read Dataframe using read\_csv()
- Make dictionary to calculate the frequency of investment
- Print the top 5 dictionary for the analysis

Q 3 After re-analysing the dataset you found out that some investors have invested in the same startup at different number of funding rounds. So before finalising the previous list, you want to improvise it by finding the top 5 investors who have invested in different number of startups. This list will be more helpful than your previous list in finding the investment for your friend startup. Find the top 5 investors who have invested maximum number of times in different companies. That means, if one investor has invested multiple times in one startup, count one for that company. There are many errors in startup names. Ignore correcting all, just handle the important ones - Ola, Flipkart, Oyo and Paytm.

Ans:

The top 5 five investors who have invested maximum number of times without any repetition are **Sequoia Capital, Accel Partners, Kalaari Capital, Indian Angel Network, Blume Venture.**

	investor_name	number_of_fundings
68	Sequoia Capital	48
24	Accel Partners	47
20	Kalaari Capital	41
61	Indian Angel Network	40
29	Blume Ventures	36



Method of analysis:

- Import packages that need for the analysis like pandas, numpy and matplotlibs

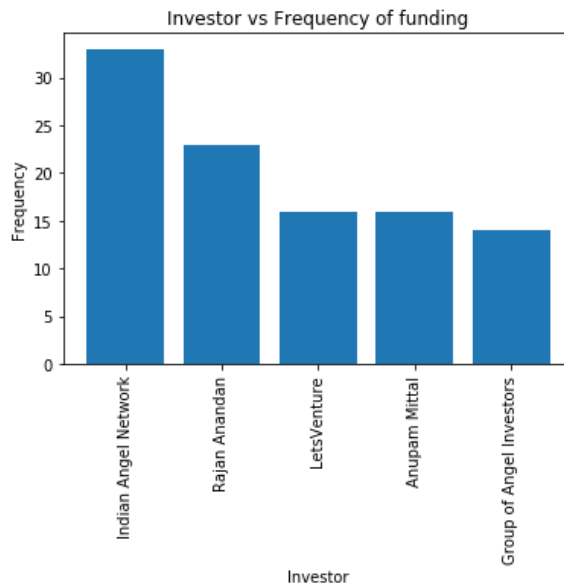
- Read Dataframe using read\_csv()
- Replace all the incorrect names with correct name
- Remove NaN values
- Create dictionary for investor and unique startups & find the length
- Plot the graph

Q4 Even after putting so much effort in finding the probable investors, it didn't turn out to be helpful for your friend. So you went to your investor friend to understand the situation better and your investor friend explained to you about the different Investment Types and their features. This new information will be helpful in finding the right investor. Since your friend startup is at an early stage startup, the best-suited investment type would be - Seed Funding and Crowdfunding. Find the top 5 investors who have invested in a different number of startups and their investment type is Crowdfunding or Seed Funding. Correct spelling of investment types are - "Private Equity", "Seed Funding", "Debt Funding", and "Crowd Funding". Keep an eye for any spelling mistake. You can find this by printing unique values from this column. There are many errors in startup names. Ignore correcting all, just handle the important ones - Ola, Flipkart, Oyo and Paytm.

Ans:

The top 5 five investors who have invested maximum number of times without any repetition are **Indian Angel Network, Rajan Anandan, LetsVenture, Anupam Mittal, Group of Angel Investors.**

	investor_name	number_of_fundings
39	Indian Angel Network	33
37	Rajan Anandan	23
8	LetsVenture	16
9	Anupam Mittal	16
1360	Group of Angel Investors	14



Method of analysis:

- Import packages that need for the analysis like pandas, numpy and matplotlibs
- Read Dataframe using read\_csv()
- Replace all the incorrect names with correct name
- Remove NaN values
- Filter the data frame only for seed funding & crowd funding
- Create dictionary for investor and unique startups & find the length
- Plot the graph

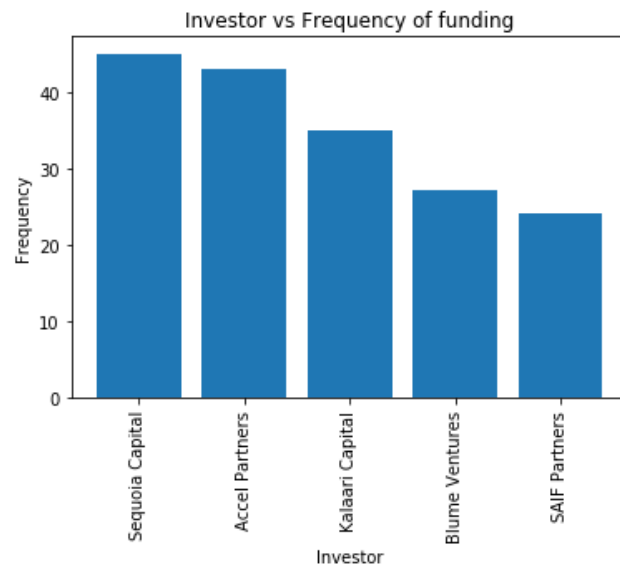
Q5 Due to your immense help, your friend startup successfully got seed funding and it is on the operational mode. Now your friend wants to expand his startup and he is looking for new investors for his startup. Now you again come as a saviour to help your friend and want to create a list of probable new new investors. Before moving forward you remember your investor friend advice that finding the investors by analysing the investment type. Since your friend startup is not in early phase it is in growth stage so the best-suited investment type is Private Equity. Find the top 5 investors who have invested in a different number of startups and their investment type is Private Equity. Correct spelling of investment types are - "Private Equity", "Seed Funding", "Debt Funding", and "Crowd Funding". Keep an eye for any spelling mistake. You can find this by printing unique values from this column. There are many errors in startup names. Ignore correcting all, just handle the important ones - Ola, Flipkart, Oyo and Paytm.

Ans:

The top 5 five investors who have invested maximum number of times without any repetition are **Sequia Capital, Accel Partners, Kalaari Capital, Blume Venture, SAIF Partners**

	investor_name	number_of_fundings
84	Sequoia Capital	45
10	Accel Partners	43
6	Kalaari Capital	35
39	Blume Ventures	27
108	SAIF Partners	24

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Method of analysis:

- Import packages that need for the analysis like pandas, numpy and matplotlibs
- Read Dataframe using read\_csv()
- Replace all the incorrect names with correct name
- Remove NaN values
- Filter the data frame only for Private Equity
- Create dictionary for investor and unique startups & find the length
- Plot the graph