PROJECT: CASE STUDY

Question 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 greatest number of funding is done. That means, find the location where startups have 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 cities lies in given locations.

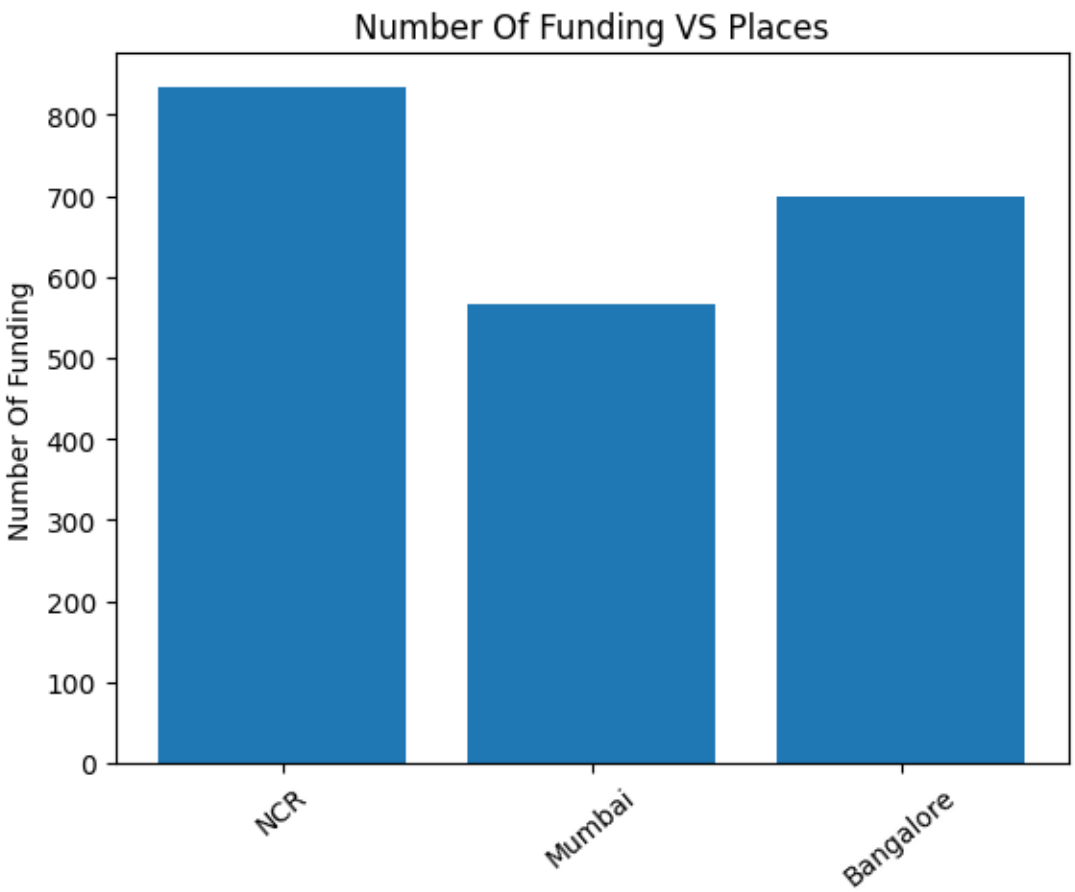
Solution. Firstly, I imported the libraries that I needed for the work such as pandas, NumPy and Matplotlib. After that I imported the csv file with the help of Pandas library. Then I changed the column names as per my need after that I replaced the existing data present in the data file as stated in the problem statement like (Delhi to New Delhi and bangalore to Bangalore) and after that I made 3 city (New Delhi, Noida, and Gurgaon) as a same place(NCR) which helps in the ease of work then made dictionary consists of the count of the city Location in the data set to know where the most funding is done.

O/P:

At NCR number of funding received are: 834.

At Mumbai number of funding received are: 567.

At Bangalore number of funding received are: 700.


Number Of Funding VS Places
Number Of Funding
800
700
600
500
400
300
200
100
0
NCR
Mumbai
Bangalore

Question 2. 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.

Solution. Firstly after importing the dataset I checked the missing and NAN values by using isnull().sum() function in the whole data frame. Then by using the investors name column present in the dataset I checked which investor funds the most of all time. By using the row and splitting the row content as per the “,” and then striping the word and containing them in the dictionary.

O/P:

Investors with total number of times

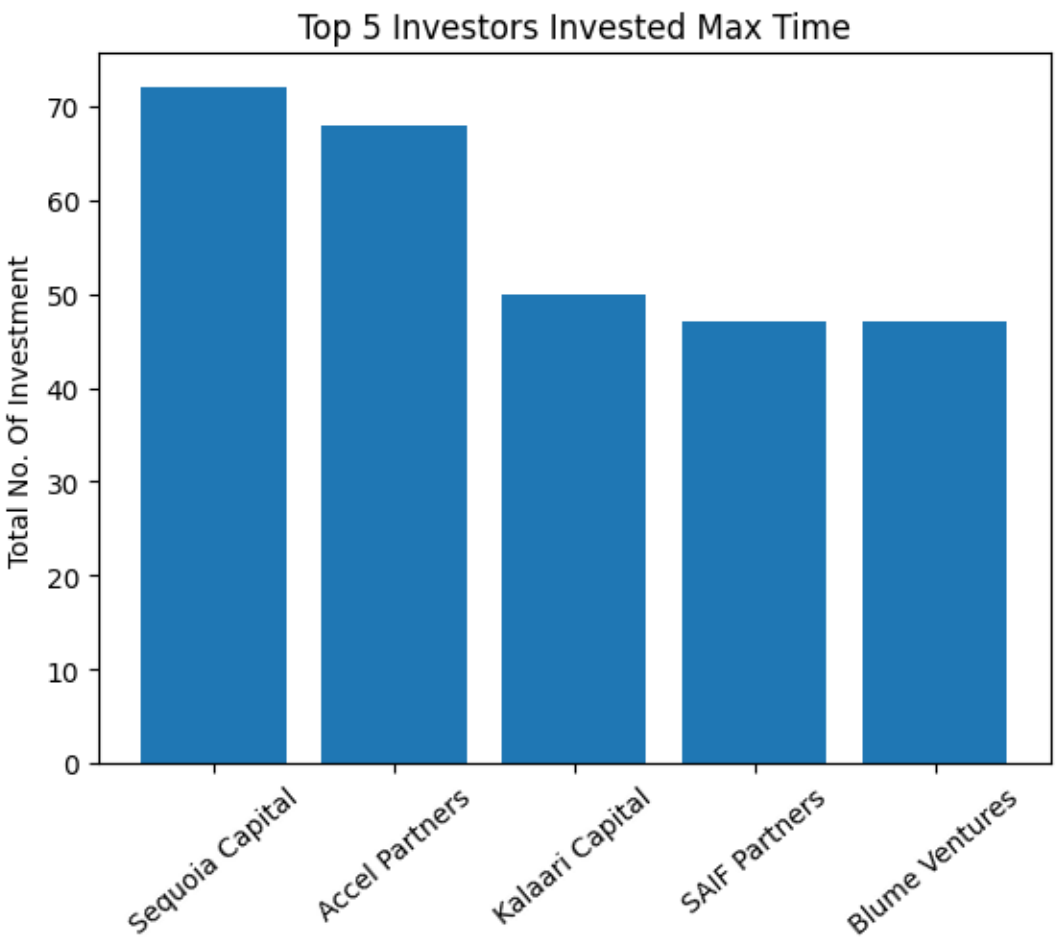
Sequoia Capital: 72

Accel Partners: 68

Kalaari Capital: 50

SAIF Partners: 47

Blume Ventures: 47


Top 5 Investors Invested Max Time
Total No. Of Investment
0
10
20
30
40
50
60
70
Sequoia Capital
Accel Partners
Kalaari Capital
SAIF Partners
Blume Ventures

Question3. 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.

Solution. After taking the dataset I changed the values of the startup names and dropping the NAN values form the dataset I made the dictionary for storing the data of the investors and the startup Names with the condition as we changed the names of startups with the similar name so that we can get the detail of the investors who invested in different startups.

O/P:

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[('Accel Partners', 59),
 ('Sequoia Capital', 53),
 ('Kalaari Capital', 47),
 ('Blume Ventures', 43),
 ('Indian Angel Network', 41)]
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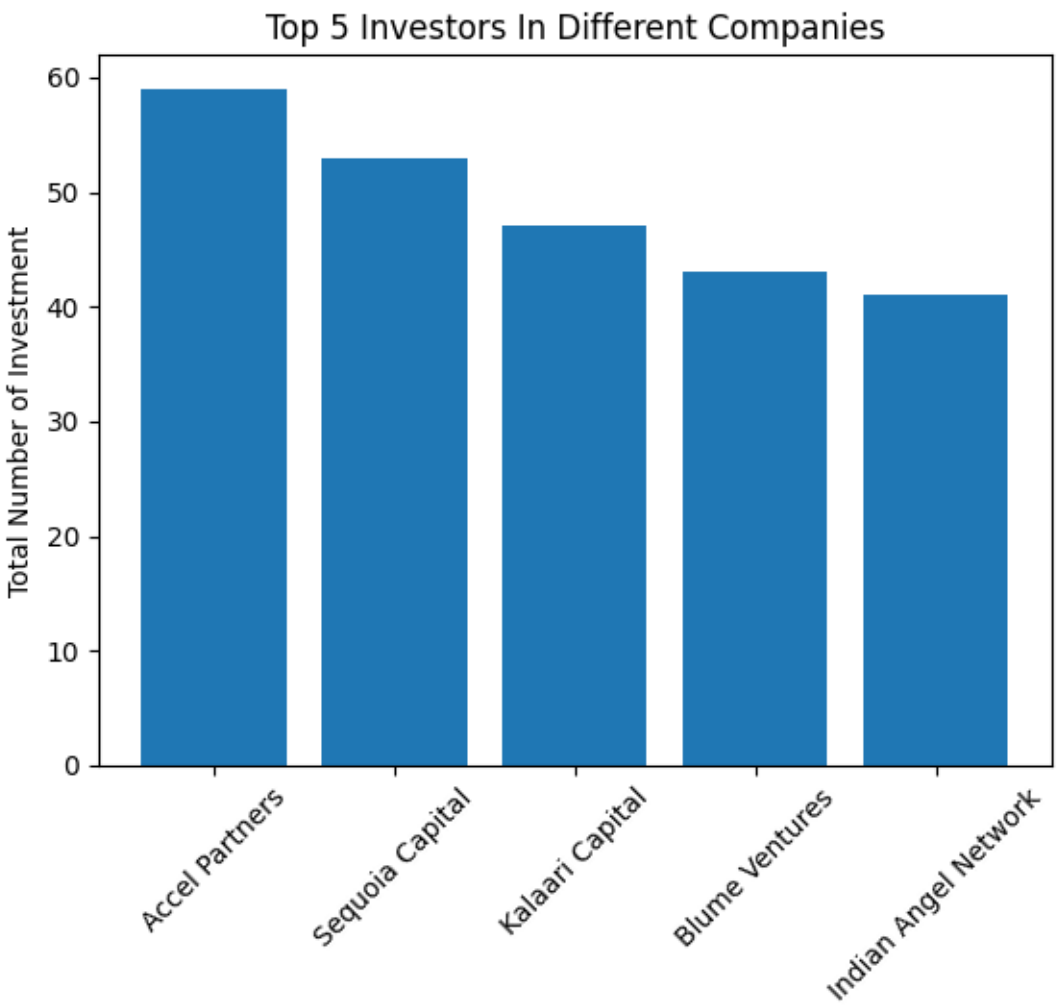

Top 5 Investors In Different Companies
Total Number of Investment
0
10
20
30
40
50
60
Accel Partners
Sequoia Capital
Kalaari Capital
Blume Ventures
Indian Angel Network

Question 4. 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 is - "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.

Solution. Taking the file with the help of panda’s library and manipulating the data according to the needs like dropping the nan values form the dataset for the further use also replacing the names in the columns as per the correct name. After the basic requirements taking only the crowd and seed funding in my dataset then simply counting the investors in this area will provide me the answer.

O/P:

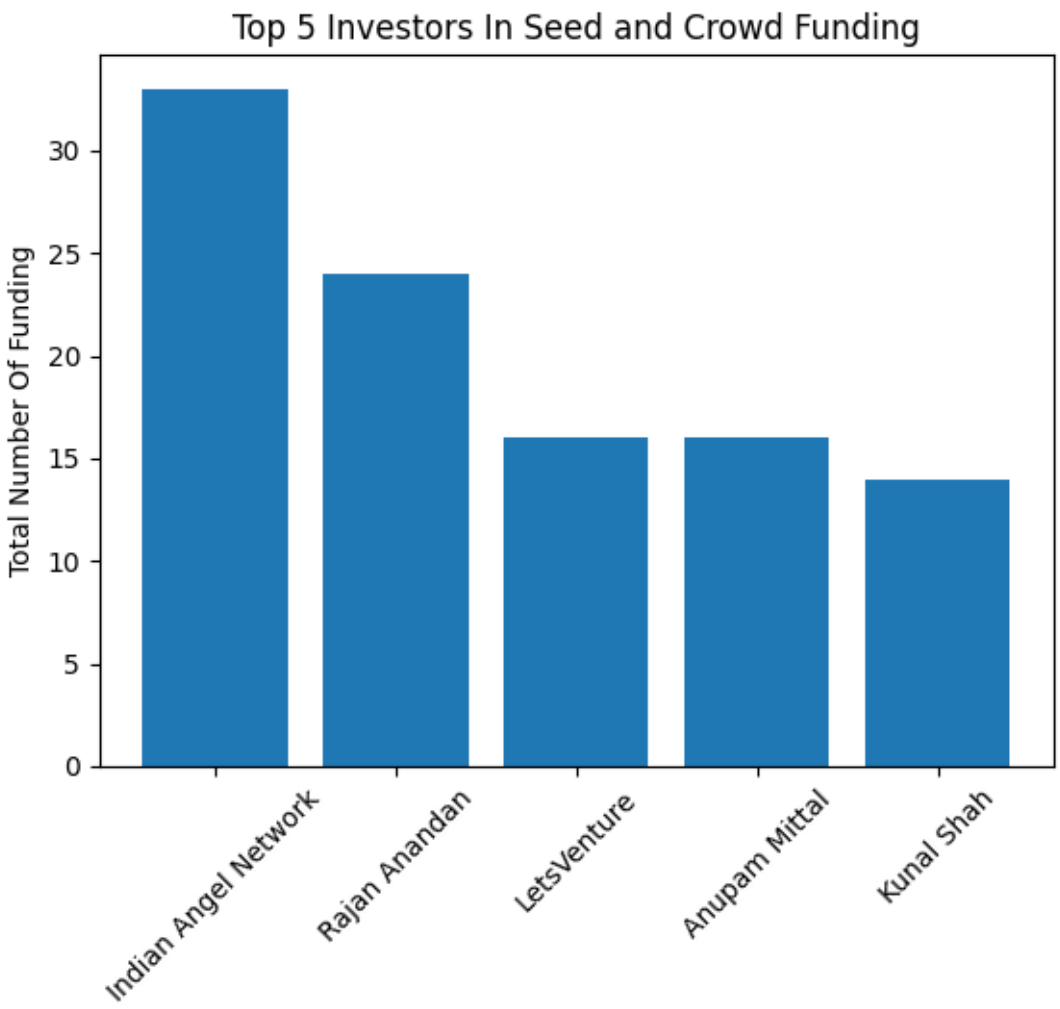
Indian Angel Network : 33

Rajan Anandan : 24

LetsVenture : 16

Anupam Mittal : 16

Kunal Shah : 14


Top 5 Investors In Seed and Crowd Funding
Total Number Of Funding
0
5
10
15
20
25
30
Indian Angel Network
Rajan Anandan
LetsVenture
Anupam Mittal
Kunal Shah

Question 5. 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 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 is - "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.

Solution. After taking the data with the help of the panda's library and replacing the row data and other useful changes as stated in the problem statement. I only took the data with the investment type = Private Equity which helps in getting the useful insights from the dataset as per the need.

O/P:

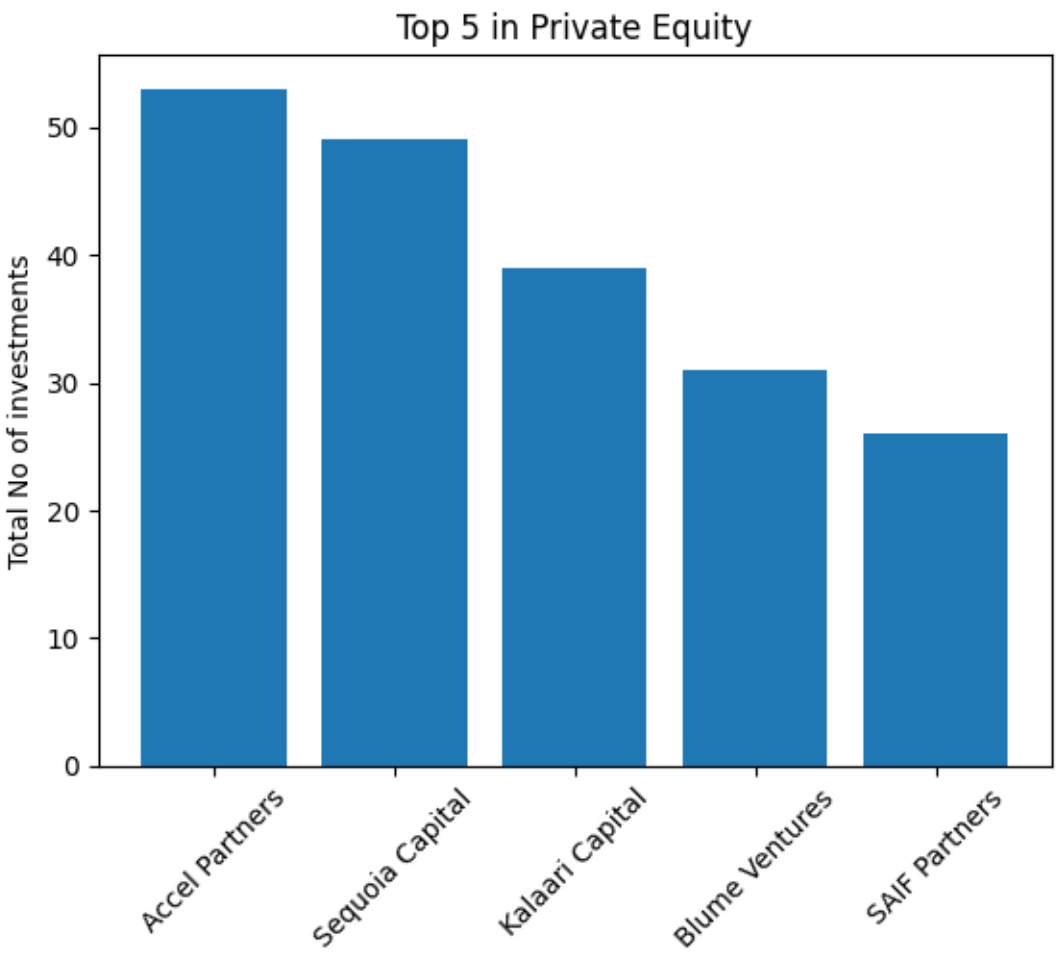
Accel Partners 53

Sequoia Capital 49

Kalaari Capital 39

Blume Ventures 31

SAIF Partners 26


Top 5 in Private Equity
Total No of investments
0
10
20
30
40
50
Accel Partners
Sequoia Capital
Kalaari Capital
Blume Ventures
SAIF Partners