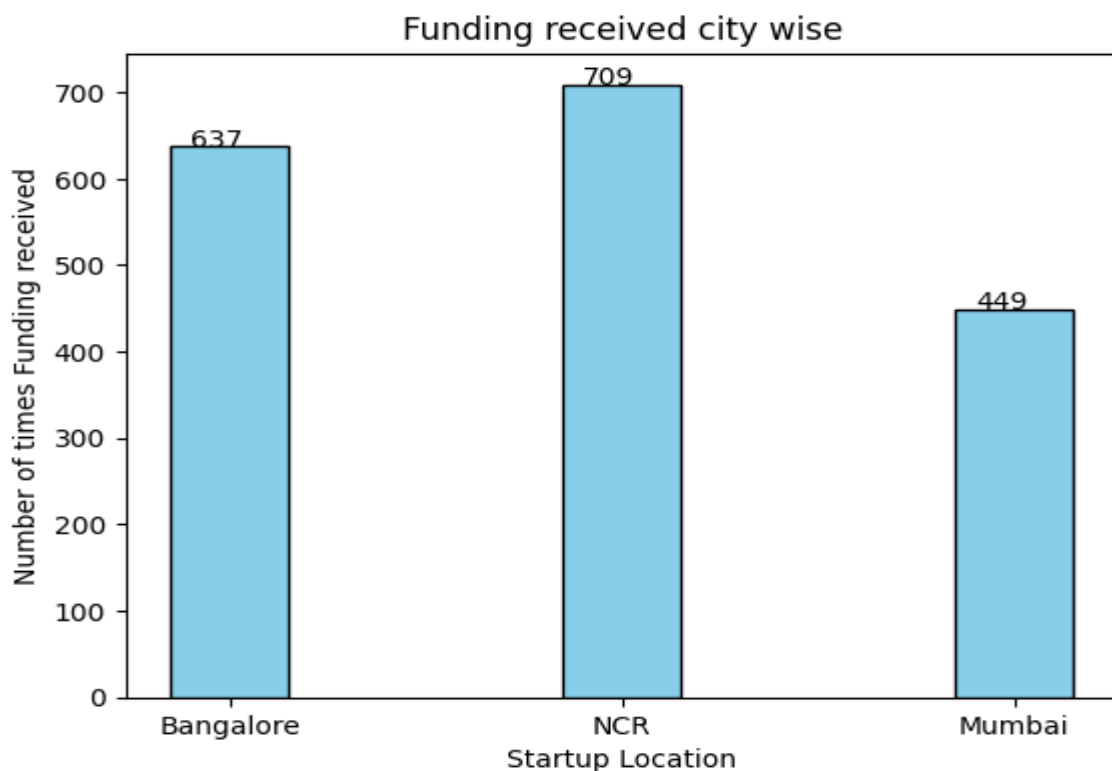


1. Your Friend has developed the Product and he wants to establish the product startup and he is searching for a perfect location where getting the investment has a high chance. But due to its financial restriction, he can choose only between three locations - Bangalore, Mumbai, and NCR. As a friend, 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.

### Explanation of code:

- Firstly, removed all the NULL values from 'CityLocation' column and then made a list for the column so that we can filter out Bangalore, Mumbai, NCR cities
- I have combined Gurgaon, Noida, New Delhi as NCR.
- After, all filtering data Dictionary is used to store count of each city or number of times each city is getting fundings.



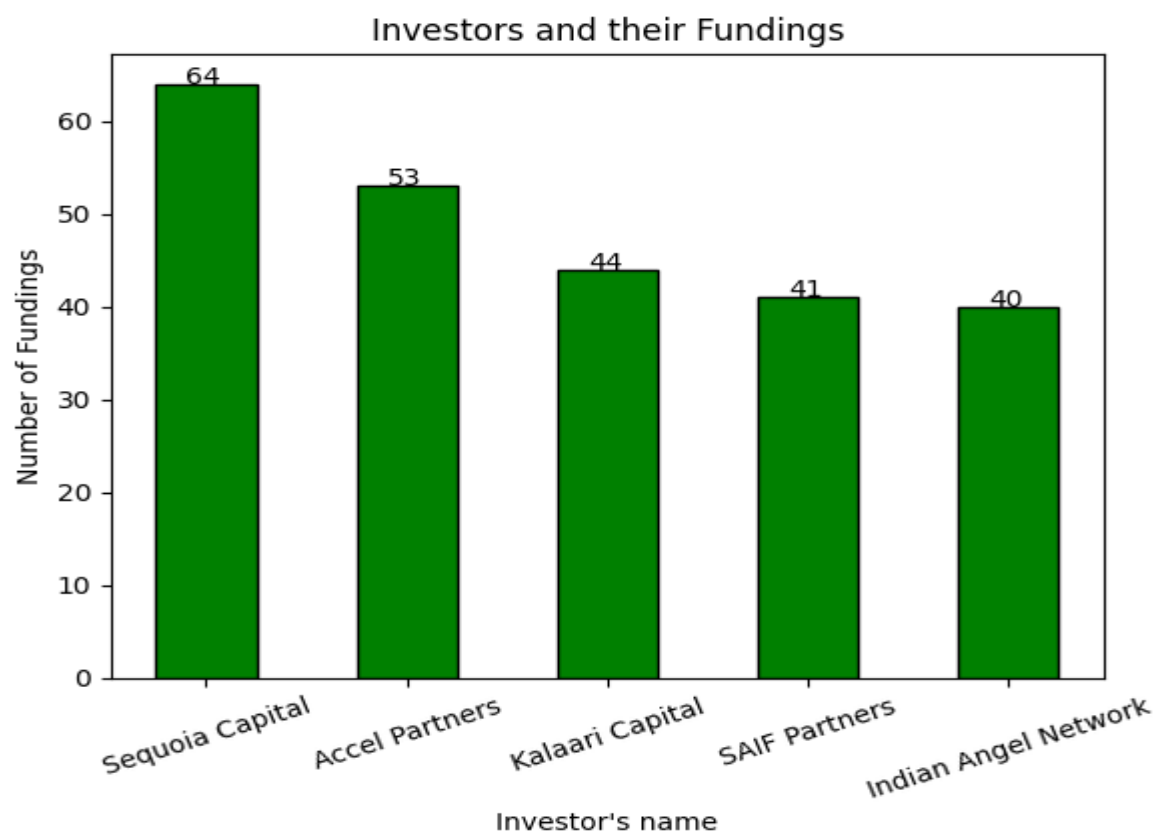
This bar chart clearly showing that NCR received fundings more frequently compared to other Two.

so, establishing a startup in 'NCR' will be best for getting funding

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.

### Explanation of code:

After Removing all the NULL values from InvestorsName column I have separated every name using split and dictionary is used to count every investors investment. based on that list we got top five investors.



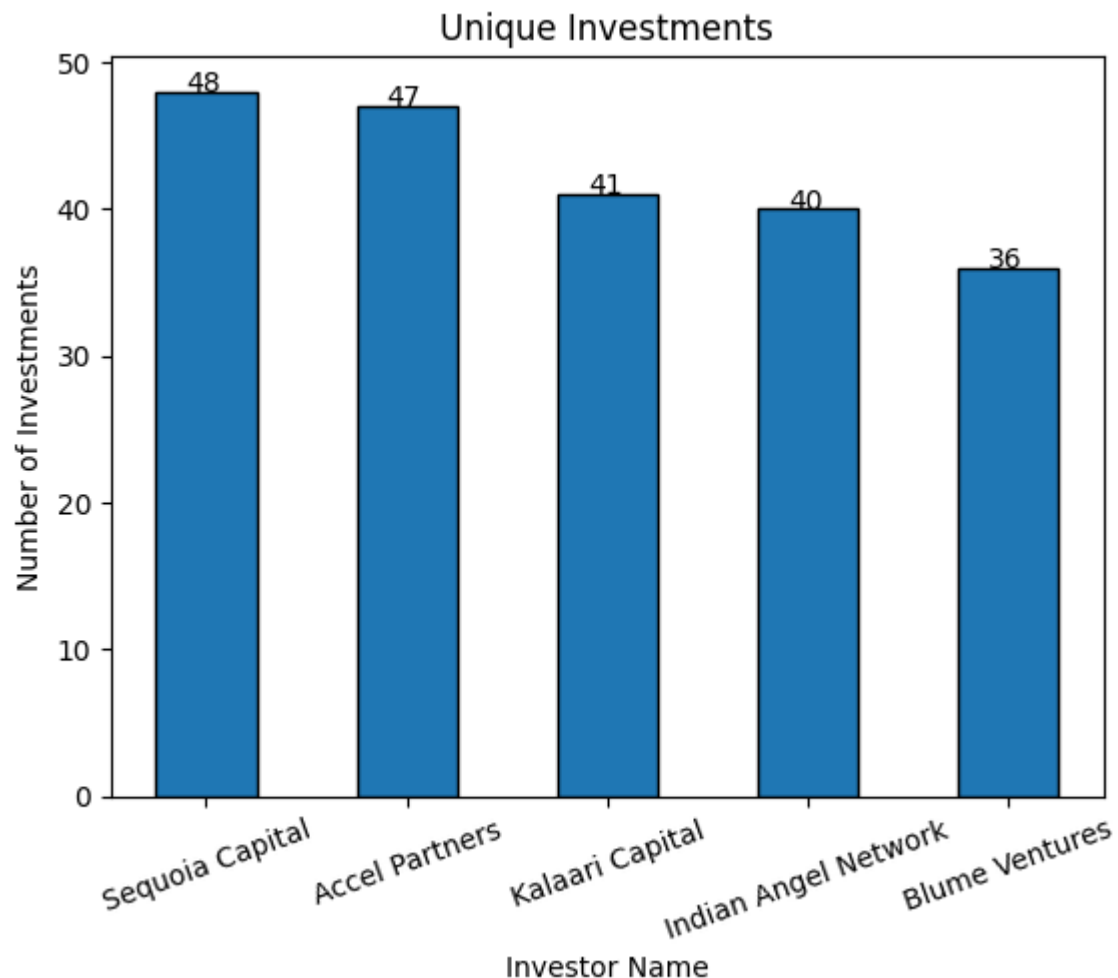
The top investors are as follows: *Sequoia Capital, Accel Partners, Kalaari Capital, SAIF Partners, Indian Angel Network*

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.

### Explanation of code:

I have Removed all the NULL values from **InvestorsName** and **startupname** columns I replaced all the wrong names of startups using `replace()` Function and cleaned the dataset Used `sets{}` to get all unique startupsname investor invested on and then using dictionary counted all the frequency of investors.



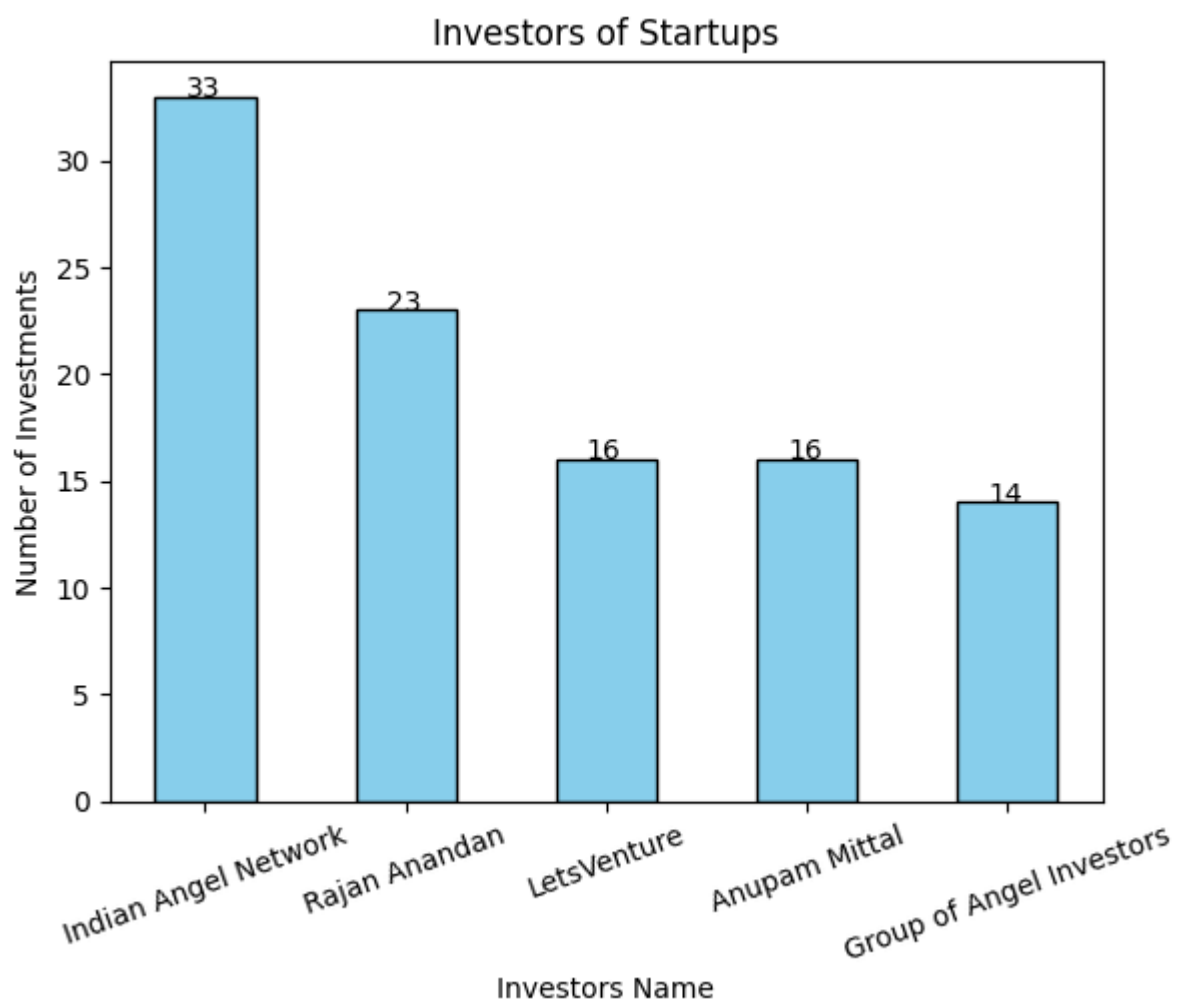
Here, the bar chart is showing top 5 investor names who have invested in different startups

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 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.

### Explanation of code:

I have Removed all the NULL values using **dropna()** and then with the help of sets dictionary and lists I have found the investors name and their investments in startups



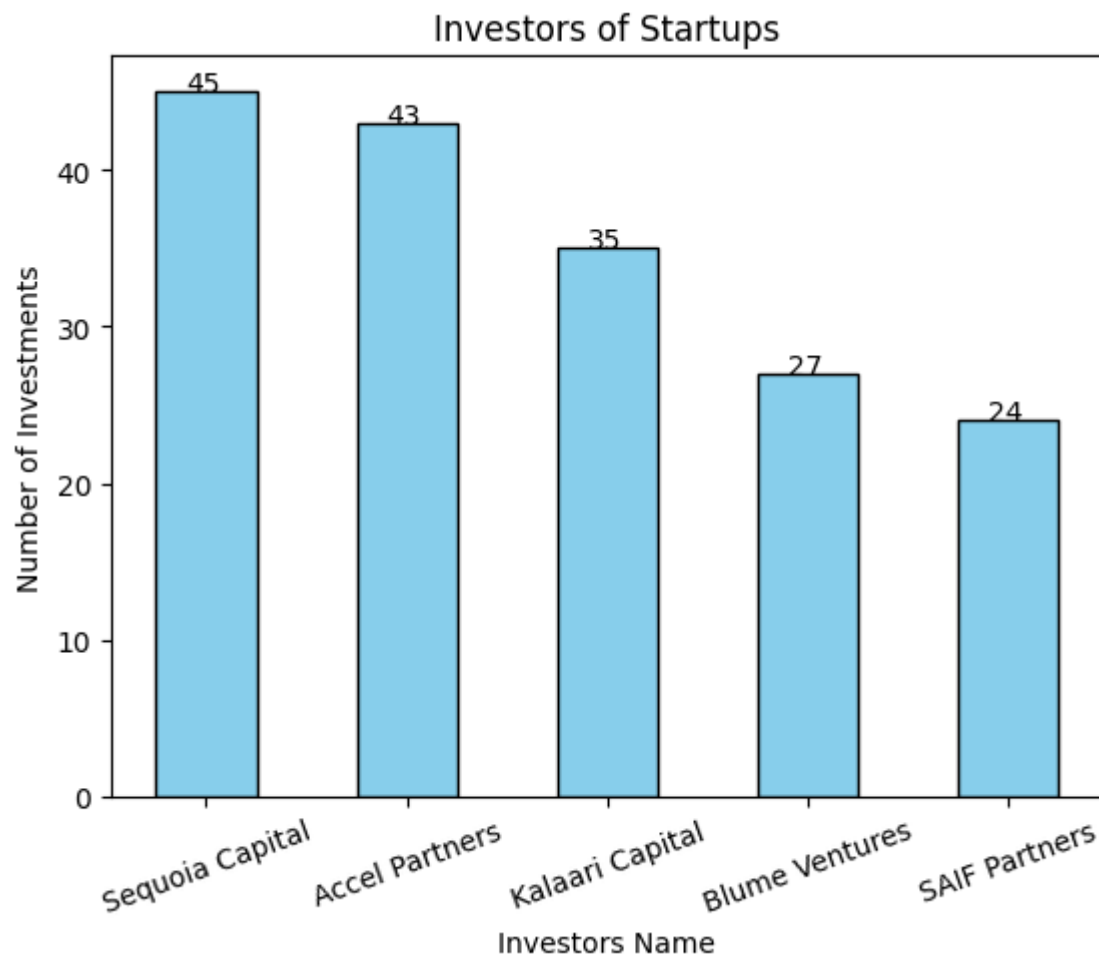
The bar chart is clearly showing the investors name and their number of investments in startups

- 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.

### Explanation of code:

I have Removed all the NULL values using **dropna()** and then replaced all the startups names using **replace()** then with the help of dict, sets, list I have find investors and their number of investments then using **numpy** I have find out top 5 investors



Here, we can clearly see our top 5 investors who have invested in Private Equity.