# PLOTS AND EXPLANATIONS

Problem-1

Problem Statement: Our 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 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.

Plot:

Bangalore 635
Mumbai 449
New Delhi 389
Gurgaon 241
Noida 79
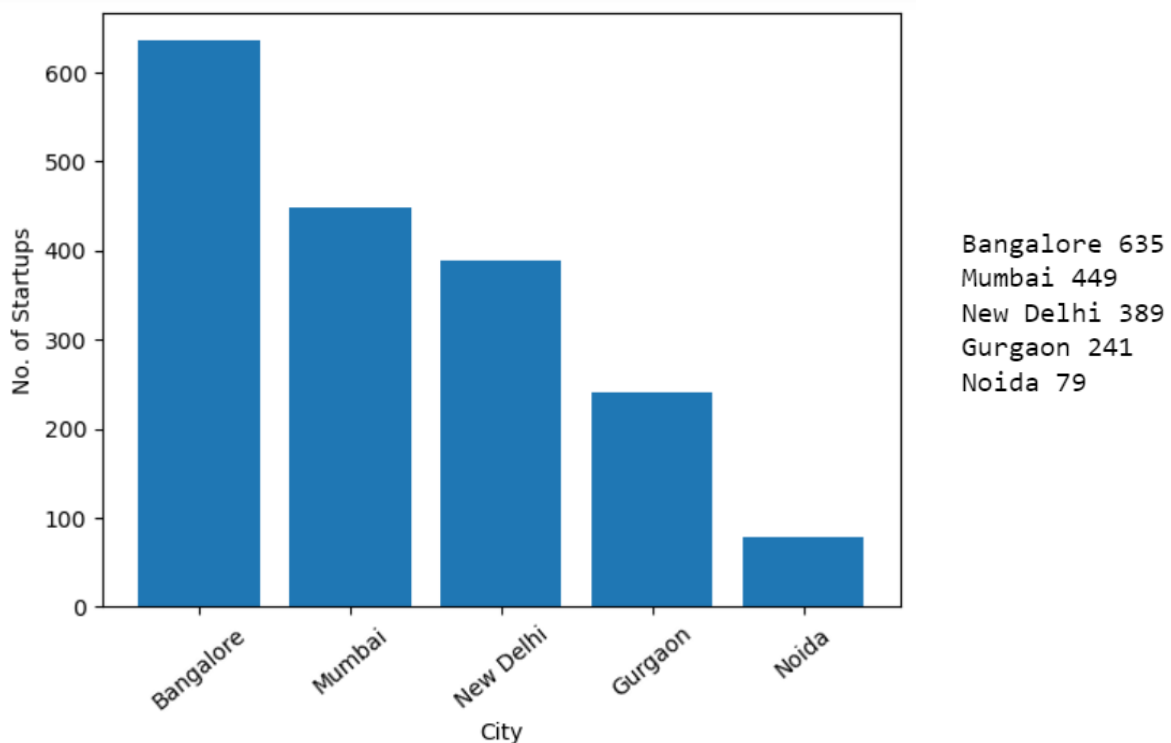
Explanation: From the above plot we can understand that majority of startups are based in Bangalore. As my friend is restricted in choosing a location from Bangalore, Mumbai and NCR region only, I would suggest him to choose Bangalore as per my analysis.

Problem-2

Problem Statement: 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.

Plot:
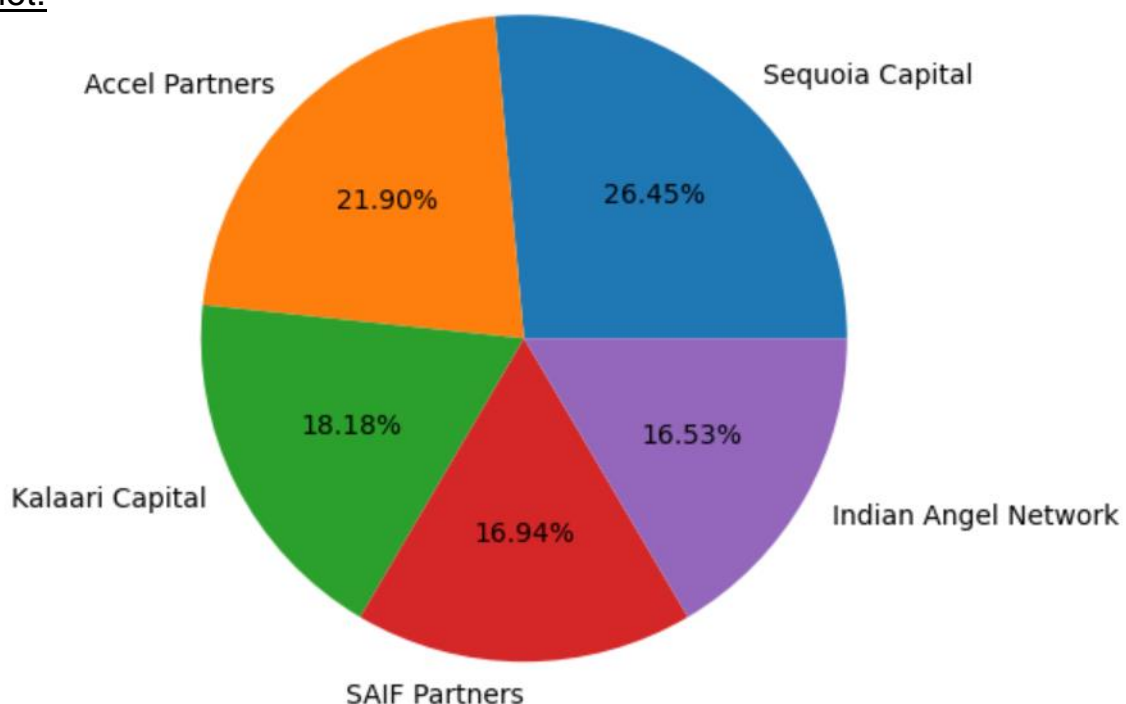

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Sequoia Capital 64
Accel Partners 53
Kalaari Capital 44
SAIF Partners 41
Indian Angel Network 40
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<u>Explanation:</u> Following the results of my code to find the top 5 investors from the data on basis of number of investments, I have plotted the above pie chart to show the percentage distribution of number of investments made among them. As per the results I would like to suggest my friend to contact these investors for maximum chance of getting funded.

<u>Problem-3</u>

<u>Problem Statement:</u> 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.

<u>Plot:</u>
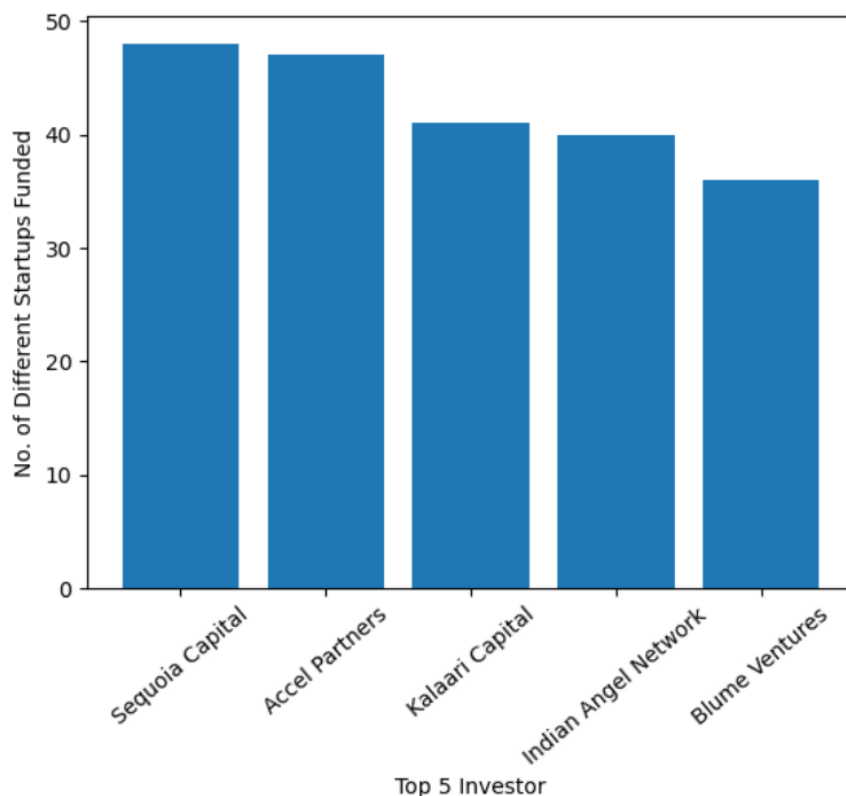

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Sequoia Capital 48
Accel Partners 47
Kalaari Capital 41
Indian Angel Network 40
Blume Ventures 36
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Explanation: This time we are looking at top investors on basis of fundings made to unique startups, that means now we are not taking in account multiple fundings made to same startup. This is a very helpful analysis as it rules out the multiple funds given to a startup. And if we compare the results of problem 2 and problem 3 we can see that **SAIF Partners** are no more in top five investors now and **Blume Ventures** makes its way in. So, I would say this is my final list of top 5 investors that I would suggest my friend to reach out for funds.

Problem-4

Problem Statement: 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.
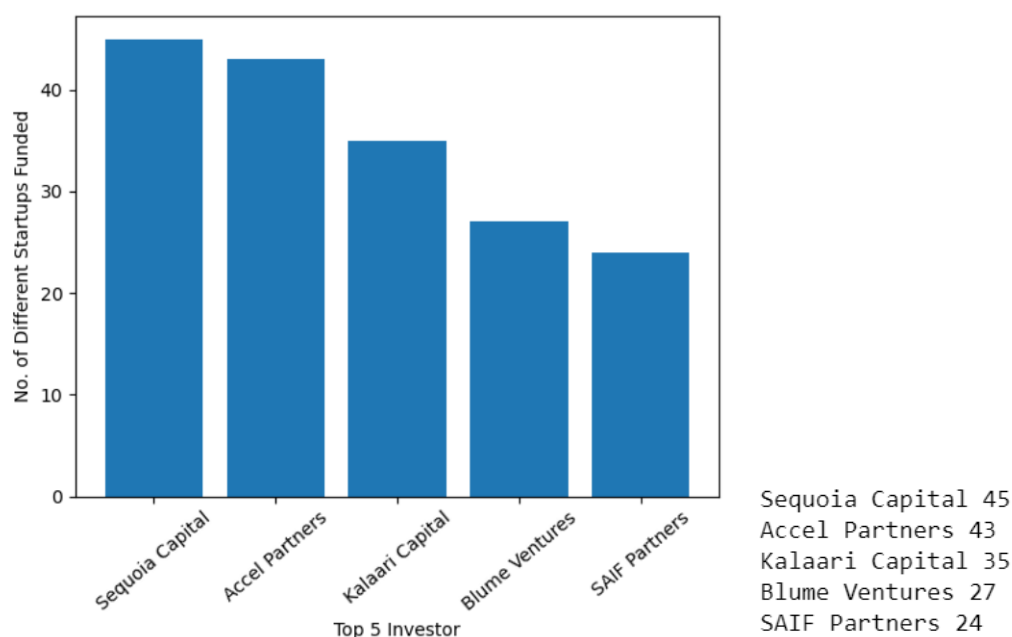
Plot:
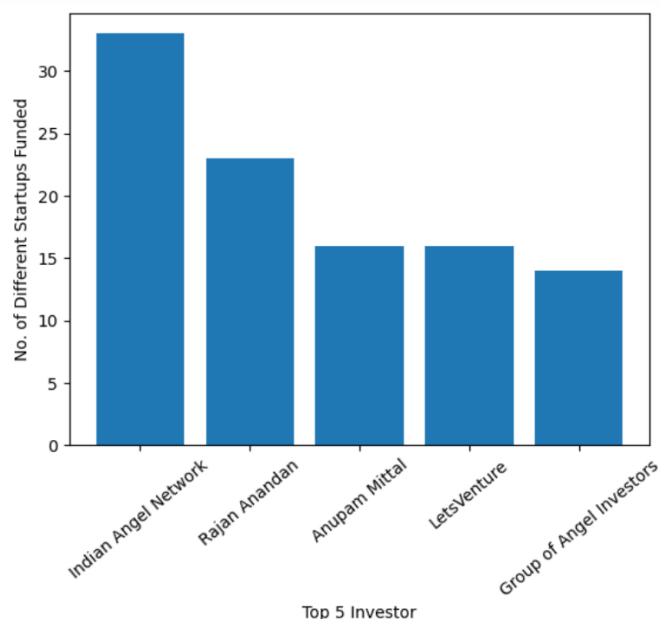

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Indian Angel Network 33
Rajan Anandan 23
Anupam Mittal 16
LetsVenture 16
Group of Angel Investors 14
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Explanation: As my friend's startup is at an early stage so we analyzed that I need to consider only 'Seed Funding' and 'Crowd Funding'. After restricting our data to only these two types of fundings, I got a completely new list of top investors that can fund my friend's startup. As these investors are in the top list of investors who are funding startups at early stage. This analysis is going to be very helpful for my friend's startup.

Problem:5

Problem Statement: 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 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.

Plot:


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Sequoia Capital 45
Accel Partners 43
Kalaari Capital 35
Blume Ventures 27
SAIF Partners 24
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Explanation: As the startup is in operational mode, thanks to our previous analysis, it still needs more funding to grow and scale up. Now we again need investors but this time we will search top investors in the category 'Private Equity' as the startup is not at initial stage. The above graph shows the top five investors in this category. This will help my friend to reach out them for fundings and grow the business.