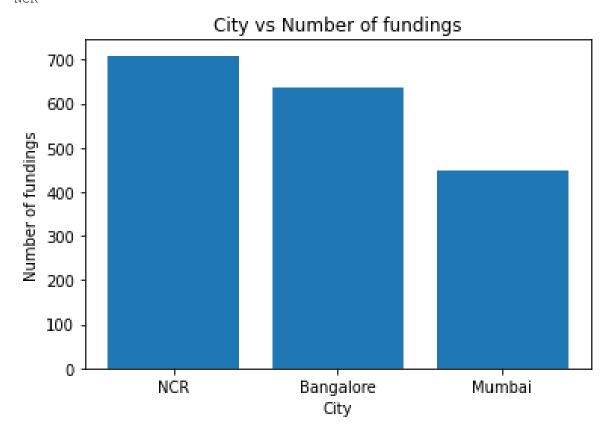
CASE STUDY - 2

Q1: Firstly, I have imported the required modules. After reading data from the CSV file, I have applied data cleaning on the dataset, by removing all the rows where CityLocation has null value using Boolean Indexing. Then I have made a different Data frame City only containing CityLocation. After this I have dropped all the NaN values from that data frame, converted City into an Numpy array and initiate a dictionary to keep a track of the number of entries against NCR, Bangalore and Mumbai. After this I traversed the whole City array. Then for each element applied the necessary changes like consider "Delhi" as "New Delhi", "bangalore" as "Bangalore", meanwhile taking care of start-ups formed in multiple locations. For "Gurgaon", "Noida", "New Delhi", I have taken the city as "NCR". Then I sorted the dictionary in reverse order After this I converted the dictionary to two 1D NumPy array x, y and plotted a bar graph using it.

As a result, we have NCR which is the city with the greatest number of fundings i.e., 709.

Output:

NCR



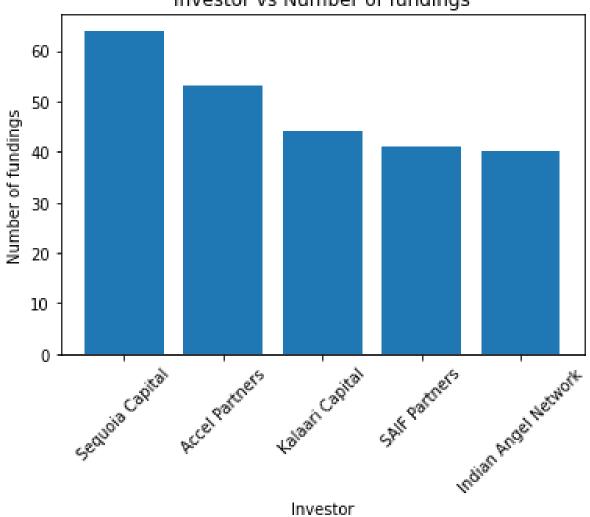
Q2: Firstly, I have imported the required modules. After reading data from the CSV file, I have made a different Data frame investor only containing InvestorsName. After this I have dropped all the NaN values from that data frame, converted investor into an Numpy array and initiate a dictionary to keep a track of the investors. After this I traversed the whole City array meanwhile taking care of start-ups funded by multiple investors in the same round. Then I sorted the dictionary in reverse order and convert the dictionary to two 1D NumPy array x, y and plotted a bar graph using it for the top 5 values.

These come out to be: Sequoia Capital 64, Accel Partners 53, Kalaari Capital 44, SAIF Partners 41, Indian Angel Network 40.

Output:

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

Investor vs Number of fundings

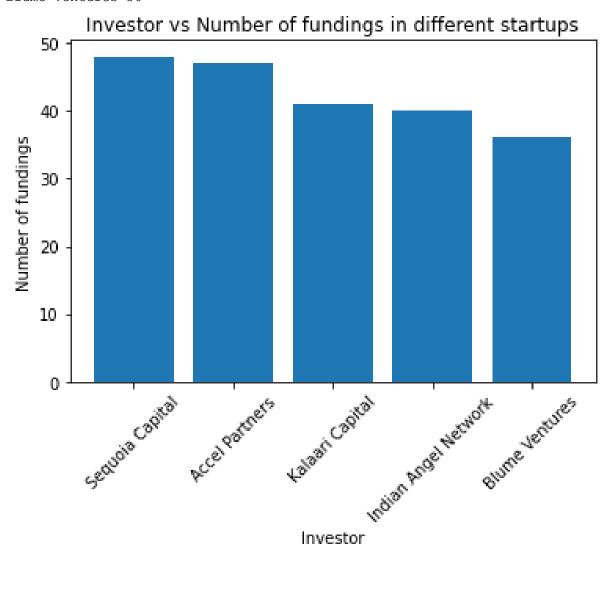


Q3: Firstly, I have imported the required modules. After reading data from the CSV file, I have applied data cleaning on the dataset, by removing all the rows where InvestorsName has null value using Boolean Indexing, after this I have reset the indexes, and initiated a dictionary. Then I traverse the whole data frame and keep track of the investors and the name of the start-up in each iteration. After this I clean the name of start-ups and take care of all the multiple investors in each round of funding. For every investor in the dictionary, I maintain a set of start-ups the investor has invested in. After this I alter the value corresponding to each key with the length of the set respective to each key. Then I sorted the dictionary in reverse order and convert the dictionary to two 1D NumPy array x, y and plotted a bar graph using it for the top 5 values.

These come out to be: Sequoia Capital 48, Accel Partners 47, Kalaari Capital 41, Indian Angel Network 40, Blume Ventures 36.

Output:

Sequoia Capital 48
Accel Partners 47
Kalaari Capital 41
Indian Angel Network 40
Blume Ventures 36



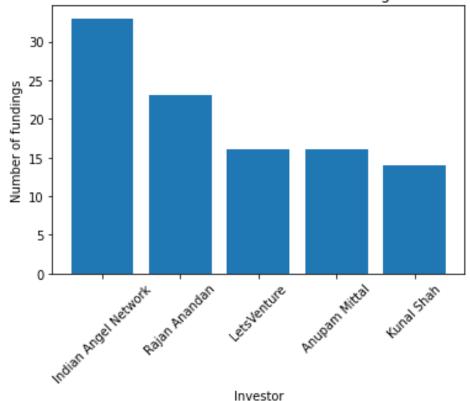
Q4: Firstly, I have imported the required modules. After reading data from the CSV file, I have applied data cleaning on the dataset, by providing consistency to the parameter InvestmentType, after I have kept only those records in the dataframe where InvestmentType is either "Seed Funding" or "Crowd Funding" and initiated a dictionary. After this I dropped the null values and reset the indexes. Then I traverse the whole data frame and keep track of the investors and the name of the start-up in each iteration. After this I clean the name of start-ups and take care of all the multiple investors in each round of funding. For every investor in the dictionary, I maintain a set of start-ups the investor has invested in. After this I alter the value corresponding to each key with the length of the set respective to each key. Then I manipulated the values of "Undisclosed Investors" and "Undisclosed investors" to 0. Then I sorted the dictionary in reverse order and convert the dictionary to two 1D NumPy array x, y and plotted a bar graph using it for the top 5 values.

These come out to be: Indian Angel Network 33, Rajan Anandan 23, LetsVenture 16, Anupam Mittal 16, Kunal Shah 14.

Output:

Indian Angel Network 33
Rajan Anandan 23
LetsVenture 16
Anupam Mittal 16
Kunal Shah 14

Seed Investors and Crowd Investor vs Number of fundings in different startups



Q5: Firstly, I have imported the required modules. After reading data from the CSV file, I have applied data cleaning on the dataset, by providing consistency to the parameter InvestmentType, after I have kept only those records in the dataframe where InvestmentType is "Private Equity" and initiated a dictionary. After this I dropped the null values and reset the indexes. Then I traverse the whole data frame and keep track of the investors and the name of the start-up in each iteration. After this I clean the name of start-ups and take care of all the multiple investors in each round of funding. For every investor in the dictionary, I maintain a set of start-ups the investor has invested in. After this I alter the value corresponding to each key with the length of the set respective to each key. Then I manipulated the values of "Undisclosed Investors" and "Undisclosed investors" to 0. Then I sorted the dictionary in reverse order and convert the dictionary to two 1D NumPy array x, y and plotted a bar graph using it for the top 5 values.

These come out to be: Sequoia Capital 45, Accel Partners 43, Kalaari Capital 35, Blume Ventures 27, SAIF Partners 24.

Output

Sequoia Capital 45 Accel Partners 43 Kalaari Capital 35 Blume Ventures 27 SAIF Partners 24

Private Equity Investor vs Number of fundings in different startups

