Indian startups



About Dataset

Content The following dataset has data about the Top 300 startups in India. Details about the columns are as follows:

- · Company Name of the Startup.
- City The City in which the startup is started.
- Starting Year The Year in which the startup was started.
- Founders Name of the founders of the startup.
- Industries Industrial domain in which the startup falls.
- No. of Employees Number of employees in the startup.
- · Funding Amount in USD Total funding amount funded to the startup.
- Funding Rounds Funding rounds are the number of times a startup goes back to the
 market to raise more capital. The goal of every round is for founders to trade equity in
 their business for the capital they can utilize to advance their companies to the next
 level.
- No. of Investors Number of investors in the startup.

Introduction

This dataset gives us information about new companies, known as startups. Startups are different from regular new businesses because they want to grow really big, not just stay small. At the beginning, startups often face a lot of problems and many of them don't succeed. But some of them do become successful and have a big impact on the business world. This dataset helps us understand which industries these startups are in and how they're doing.



Workflow

- Understanding Data
- · Data Cleaning and Preprocessing
- EDA (Exploratory Data Analysis)
- Insights
- Conclusion

Out	[49]	:
O G C	12	

	Unnamed: 0	Company	City	Starting Year	Founders	Industries	Description	Em _l
0	0	Urban Company	Gurgaon	2014	Abhiraj Singh Bhal, Raghav Chandra, Varun Khaitan	Apps, Home Services, Marketplace, Service Indu	Urban is a marketplace for independent contrac	10
1	1	Classplus	Noida	2018	Bhaswat Agarwal, Bikash Dash, Mukul Rustagi, N	B2B, E- Learning, EdTech, Education, Mobile App	Classplus is a mobile-first SaaS platform that	
2	2	Paytm	Noida	2010	Akshay Khanna, Vijay Shekhar Sharma	E-Commerce, Finance, Financial Services, Inter	Paytm is a payment gateway that allows users a	5
3	3	Apna	Mumbai	2019	Nirmit Parikh	Employment, Human Resources, Recruiting, Staff	Apna is a professional networking and job- sear	
4	4	Razorpay	Bengaluru	2014	Harshil Mathur, Shashank Kumar	Financial Services, FinTech, Payments, Software	Razorpay is a payment acceptance, processing, 	10
295	295	SafexPay	Thane	2017	Ravi Gupta	FinTech, Payments	Safexpay is a B2B2B finance company that speci	
296	296	Pariksha	Pune	2015	Deepak Choudhary, Karanvir Singh Shekhawat, Ut	E-Learning, EdTech, Education, Skill Assessment	Pariksha - The Success App is India's leading	
297	297	Fyllo	Bengaluru	2019	Sachin Gautam, Sudhanshu Rai, Sumit Sheoran	Agriculture, AgTech, Artificial Intelligence,	Fyllo is a precision agriculture service provi	
298	298	CredFlow	New Delhi	2019	Kunal Aggarwal	Credit, Financial Services	CredFlow offers financial services that help y	
299	299	HalaPlay Technologies	Bengaluru	2016	Swapnil Saurav	Digital Entertainment, Fantasy Sports, Sports	HalaPlay Technologies is a platform for daily	

Understanding Data

Let's see the shape of the data

```
In [5]: 1 df.shape
Out[5]: (300, 11)
```

Let's see if there any null value in the dataset

```
In [8]:
         1 df.isnull().sum()
Out[8]: Unnamed: 0
                               0
        Company
                               0
        City
                               0
        Starting Year
                               0
        Founders
                               0
        Industries
                               0
        Description
                               0
        No. of Employees
                               0
        Funding Amount in $
        Funding Round
                               0
        No. of Investors
        dtype: int64
```

Let's see the information of dataset

memory usage: 25.9+ KB

```
In [9]: 1 df.info()
```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 300 entries, 0 to 299
Data columns (total 11 columns):

#	Column	Non-Null Count	Dtype				
0	Unnamed: 0	300 non-null	int64				
1	Company	300 non-null	object				
2	City	300 non-null	object				
3	Starting Year	300 non-null	int64				
4	Founders	300 non-null	object				
5	Industries	300 non-null	object				
6	Description	300 non-null	object				
7	No. of Employees	300 non-null	object				
8	Funding Amount in \$	300 non-null	int64				
9	Funding Round	300 non-null	int64				
10	No. of Investors	300 non-null	int64				
dtyp	<pre>dtypes: int64(5), object(6)</pre>						

In [10]:

1 df.head() #Head - returns a specified number of rows, string from the t

Out[10]:

	Unnamed: 0	Company	City	Starting Year	Founders	Industries	Description	No. of Employees
0	0	Urban Company	Gurgaon	2014	Abhiraj Singh Bhal, Raghav Chandra, Varun Khaitan	Apps, Home Services, Marketplace, Service Indu	Urban is a marketplace for independent contrac	1001-5000
1	1	Classplus	Noida	2018	Bhaswat Agarwal, Bikash Dash, Mukul Rustagi, N	B2B, E- Learning, EdTech, Education, Mobile App	Classplus is a mobile- first SaaS platform that	101-250
2	2	Paytm	Noida	2010	Akshay Khanna, Vijay Shekhar Sharma	E- Commerce, Finance, Financial Services, Inter	Paytm is a payment gateway that allows users a	501-1000
3	3	Apna	Mumbai	2019	Nirmit Parikh	Employment, Human Resources, Recruiting, Staff	Apna is a professional networking and jobsear	101-250
4	4	Razorpay	Bengaluru	2014	Harshil Mathur, Shashank Kumar	Financial Services, FinTech, Payments, Software	Razorpay is a payment acceptance, processing, 	1001-5000
4								•

In [11]: 1 df.tail() #Tail - returns a specified number of last rows
Out[11]:

	Unnamed: 0	Company	City	Starting Year	Founders	Industries	Description	Em
295	295	SafexPay	Thane	2017	Ravi Gupta	FinTech, Payments	Safexpay is a B2B2B finance company that speci	
296	296	Pariksha	Pune	2015	Deepak Choudhary, Karanvir Singh Shekhawat, Ut	E-Learning, EdTech, Education, Skill Assessment	Pariksha - The Success App is India's Ieading	
297	297	Fyllo	Bengaluru	2019	Sachin Gautam, Sudhanshu Rai, Sumit Sheoran	Agriculture, AgTech, Artificial Intelligence,	Fyllo is a precision agriculture service provi	
298	298	CredFlow	New Delhi	2019	Kunal Aggarwal	Credit, Financial Services	CredFlow offers financial services that help y	
299	299	HalaPlay Technologies	Bengaluru	2016	Swapnil Saurav	Digital Entertainment, Fantasy Sports, Sports	HalaPlay Technologies is a platform for daily	
<								•

Data Cleaning & Pre-processing

Let's Drop Unamed: 0 column as it appears to be an index or identifier with no relevance to the data analysis.

```
In [16]: 1 df.drop("Unnamed: 0", axis=1, inplace=True)
```

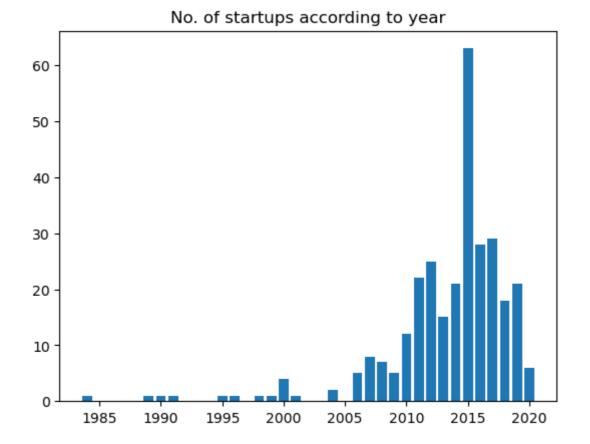
EDA - Exploratory Data Analysis

Let's see the starting year of the compaines or compaines founded in year

```
In [21]:
          1 df["Starting Year"].value_counts()
Out[21]: 2015
                  63
         2017
                  29
         2016
                  28
         2012
                  25
          2011
                  22
         2014
                  21
         2019
                  21
         2018
                  18
         2013
                  15
                  12
         2010
         2007
                  8
                   7
         2008
         2020
                  6
                   5
         2006
         2009
                   5
                   4
          2000
         2004
                   2
         1990
                   1
         2001
                   1
                   1
         1984
         1996
                   1
         1999
                  1
         1989
                   1
         1995
                   1
                   1
         1998
         1991
                   1
         Name: Starting Year, dtype: int64
```

Let's plot it

Out[26]: Text(0.5, 1.0, 'No. of startups according to year')



Insights

• the most number of startup founded in the year of 2015

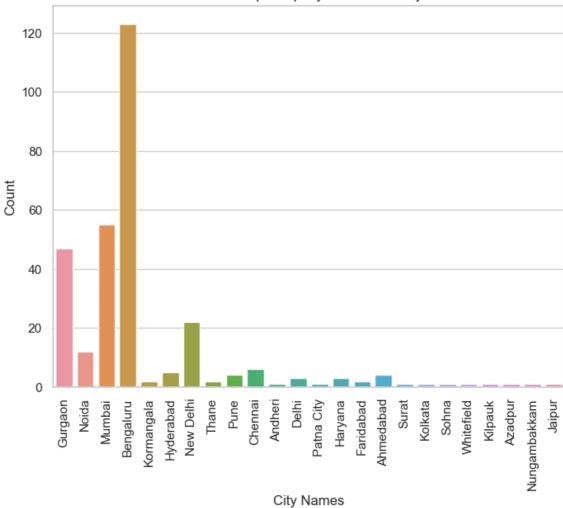
Let's the see cities where companies founded most

```
In [27]:
         1 df["City"].value_counts()
Out[27]: Bengaluru
                         123
         Mumbai
                          55
         Gurgaon
                          47
         New Delhi
                          22
                          12
         Noida
         Chennai
                           6
                           5
         Hyderabad
                           4
         Pune
         Ahmedabad
                           4
                           3
         Delhi
                           3
         Haryana
                           2
         Thane
                           2
         Kormangala
                           2
         Faridabad
         Whitefield
                           1
                           1
         Nungambakkam
         Azadpur
                           1
         Kilpauk
                           1
         Patna City
                           1
                           1
         Sohna
                           1
         Kolkata
         Surat
                           1
         Andheri
                           1
         Jaipur
                           1
         Name: City, dtype: int64
```

Let's Plot it

```
In [33]:
           1 plt.figure(figsize=(8, 6))
           2 sns.set(style="whitegrid")
           3 sns.countplot(data=df,x="City")
           4 plt.title("Most startup companys in different citys")
           5 plt.xlabel('City Names')
           6 plt.ylabel('Count')
           7 plt.xticks(rotation=90)
Out[33]: (array([ 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 1
          6,
                  17, 18, 19, 20, 21, 22, 23]),
           [Text(0, 0, 'Gurgaon'),
            Text(1, 0, 'Noida'),
            Text(2, 0, 'Mumbai'),
            Text(3, 0, 'Bengaluru'),
            Text(4, 0, 'Kormangala'),
            Text(5, 0, 'Hyderabad'),
            Text(6, 0, 'New Delhi'),
            Text(7, 0, 'Thane'),
            Text(8, 0, 'Pune'),
            Text(9, 0, 'Chennai'),
            Text(10, 0, 'Andheri'),
            Text(11, 0, 'Delhi'),
            Text(12, 0, 'Patna City'),
            Text(13, 0, 'Haryana'),
Text(14, 0, 'Faridabad'),
            Text(15, 0, 'Ahmedabad'),
            Text(16, 0, 'Surat'),
            Text(17, 0, 'Kolkata'),
            Text(18, 0, 'Sohna'),
            Text(19, 0, 'Whitefield'),
            Text(20, 0, 'Kilpauk'), Text(21, 0, 'Azadpur'),
            Text(22, 0, 'Nungambakkam'),
            Text(23, 0, 'Jaipur')])
```

Most startup companys in different citys



Insight

- Most number of most startup companys located in Bengaluru, After that Mumbai, Gurganon, New Delhi
- · And jaipur has lowest number of startup

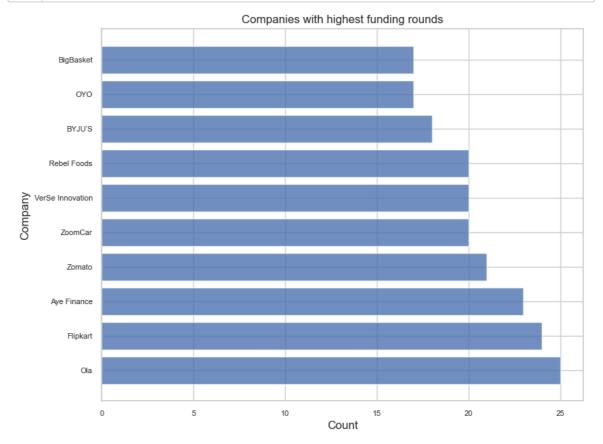
Let's see the which company has most funding round

```
In [52]: 1 sorting_funding_round = df["Funding Round"].sort_values(ascending=False
2 sorting_funding_round.index

Out[52]: Int64Index([11, 41, 113, 107, 50, 181, 80, 23, 239, 8], dtype='int64')

In [53]: 1 sorting_funding_round1 = df.loc[[11, 41, 113, 107, 50, 181, 80, 23, 239])
```

```
In [55]:
           1 plt.figure(figsize=(9,7))
           2 plt.barh(sorting_funding_round1,sorting_funding_round,alpha=0.8)
           3 | plt.title('Companies with highest funding rounds')
           4 plt.ylabel('Company')
           5 plt.xlabel('Count')
           6 plt.tick_params(labelsize=8)
             plt.show()
```



Insight

· Ola has highest funding round followed by flipkar and aye finance

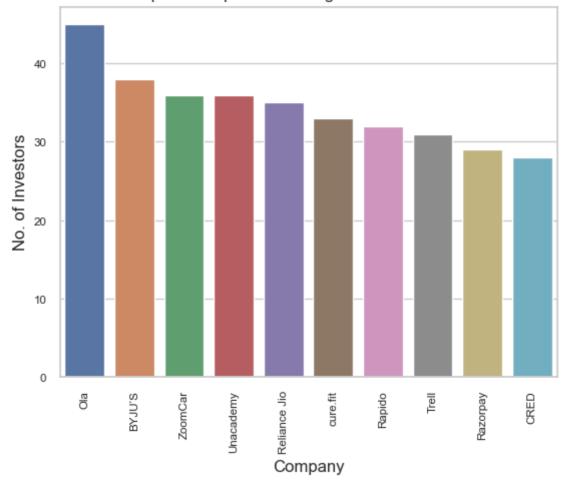
Let's see the which company has most investor

```
investor_sorting = df["No. of Investors"].sort_values(ascending=False).
In [56]:
            2
               investor_sorting
Out[56]:
          11
                45
          23
                 38
          50
                 36
          10
                 36
          32
                 35
          69
                 33
          31
                 32
          88
                 31
                 29
          4
          13
```

Name: No. of Investors, dtype: int64

```
In [57]:
              investor_sorting1 = df.loc[[11, 23, 50, 10, 32, 69, 31, 88, 4, 13],"Com
              investor_sorting1
Out[57]:
         11
                         0la
         23
                      BYJU'S
         50
                     ZoomCar
          10
                   Unacademy
          32
                Reliance Jio
         69
                    cure.fit
         31
                      Rapido
         88
                       Trell
         4
                    Razorpay
         13
                        CRED
         Name: Company, dtype: object
In [58]:
              sns.barplot(x=investor_sorting1,y=investor_sorting,data=df)
           2
              plt.xticks(rotation='vertical')
              plt.title('Top 10 Companies with highest no. of Investors')
             plt.xlabel('Company', size=12)
           5 plt.ylabel('No. of Investors', size=12)
              plt.tick params(labelsize='x-small')
```

Top 10 Companies with highest no. of Investors



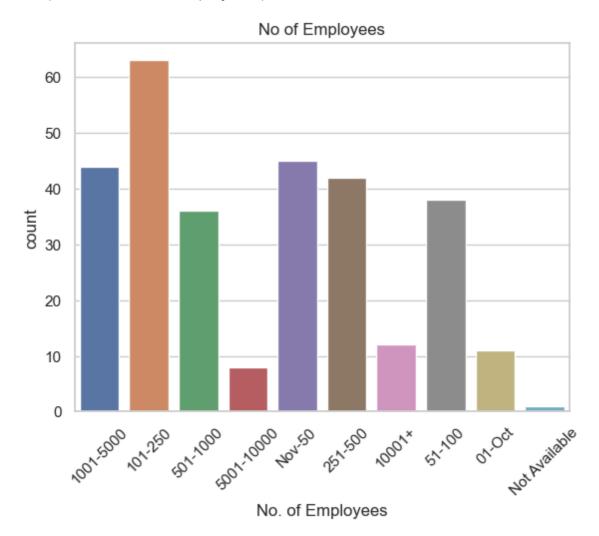
Insight

· Ola has the highest number of investor follwed by byju's and zoomcar

Let's see which company has most no. of employees

```
In [64]: 1 sns.countplot(data=df,x="No. of Employees")
2 plt.xticks(rotation=45)
3 plt.title('No of Employees')
```

Out[64]: Text(0.5, 1.0, 'No of Employees')



Insight

• Most companies has employees count of 101 - 250

Conclusion

In conclusion, this dataset offers a window into the world of startups, providing insights into the industries they operate in and their potential for growth and success. While startups face significant challenges and uncertainties at the outset, a subset of them demonstrates resilience and the capacity to make a significant impact on their respective fields. By studying these startups and their journeys, we gain a better understanding of the everevolving landscape of entrepreneurship and the potential for innovation and transformation in the business world. This dataset serves as a valuable resource for exploring the dynamics of emerging companies and their contributions to the broader economy.