

INNOVATION. AUTOMATION. ANALYTICS

PROJECT ON

EDA on companies in Hyderabad (Ambition box)

about us

- Name : Mohd Ashfaq
- Qualification : B.com computers
- Any work Experience: Fresher
- Data Science models use existing data and can simulate several actions. Thus, companies can devise the path to reap the best business outcomes. Data Science helps organizations identify and refine target audiences by combining existing data with other data points for developing useful insights.

- Name : Shaik Sultan
- Qualification : B.com computers
- Any work Experience: Fresher
- In today's presentation i'll like to explain the Ambition box site which is popular among the job seeker which give the best results for the job seeker



Contents:

- Problem Statements
- Webscraping
- Tools used
- Steps to collect Data
- Raw Data
- Data cleaning steps
- Cleaned Data
- Data Visualization
- Challenges faced
- Conclusion





Problem Statement

- What is Ambition box?
- Companies In Hyderabad
- Types of companies
- Reviews of a company
- Interviews conducted by a company
- Salaries of companies
- Displaying graph with respect to Rating ,Reviews ,Ralaries Companytype , Jobs.



Web scraping

- Web scraping (or data scraping) is a technique used to collect content and data from the internet.
- It is used in a variety of digital businesses that rely on data harvesting.
- The data obtained is mostly unstructured and converted to structured data
- Making an page request to a server
- Extracting and parsing (or breaking down) the website's code
- Saving the relevant data locally
- Beautiful Soup is a Python library for pulling data out of page and XML files.

Tools used

Webscraping Tools(Data Collections)

- Python
- Edge chrome
- BeautifulSoup
- Requests







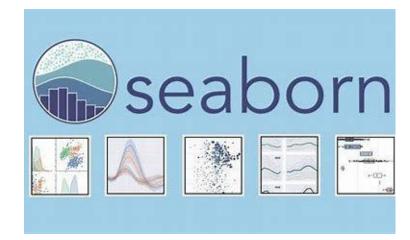
• 2. Data cleaning and manupilation

- Numpy
- Pandas
- Lambda



3. Data Visualizations

- Matplotlib
- Seaborn
- Plotly

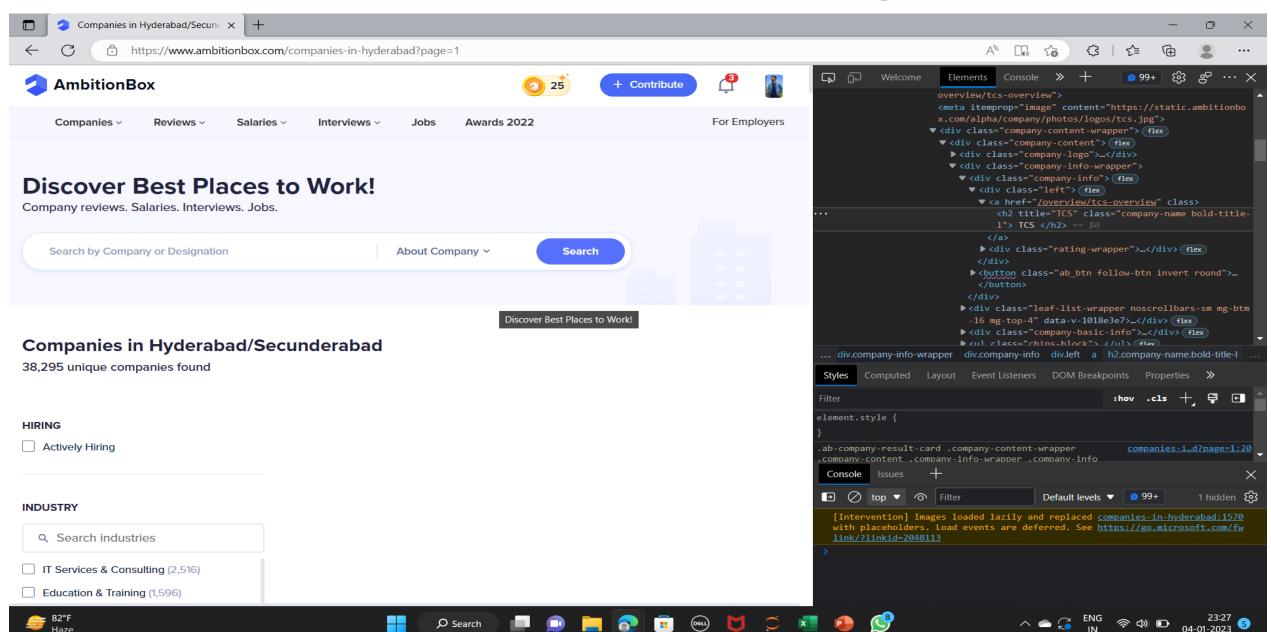








Ambiton box Website for collecting data



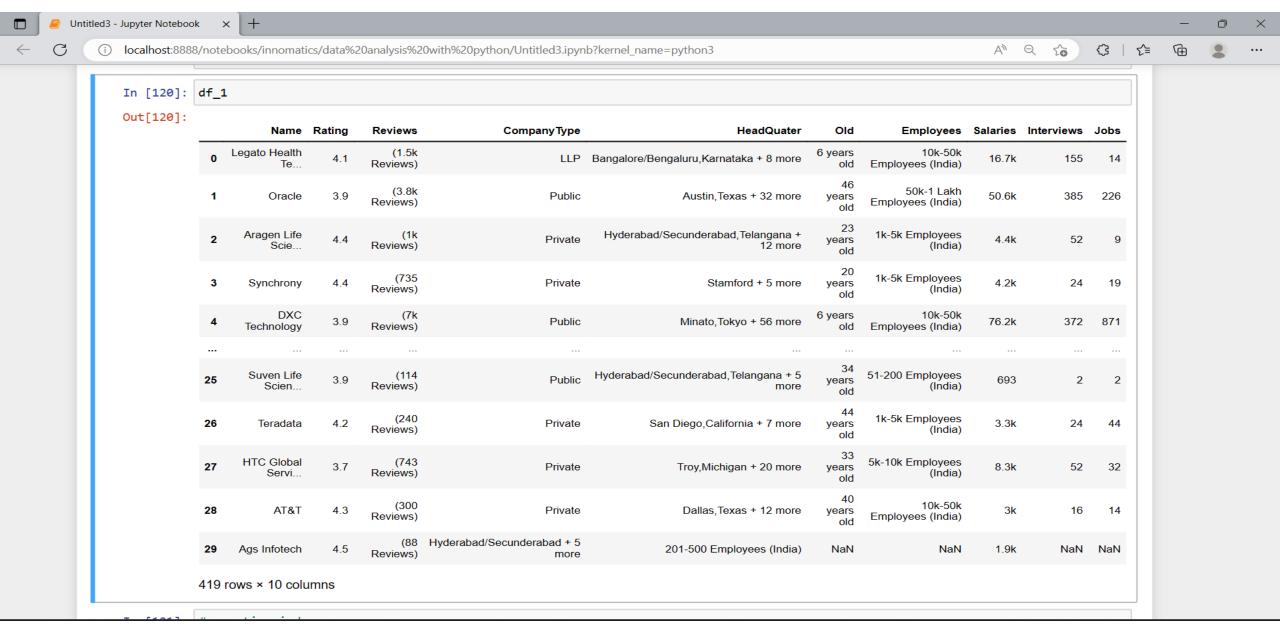
Steps to Collect data

- companies in Hyderabad (Ambition box)
- Import Beautiful Soup and all the necessary libraries for scraping the data
- After scraping the raw data we have to check for the column length
- After inserting at a particular value to a column, we have to make a dictionary and convert it into data frame.
- After converting it into data frame Export into .csv format and read csv file.





Raw Collection from Ambiton box Site



Data Cleaning Steps

- Check for Duplicates
- Drop the duplicate column and unnecessary columns.
- Removing irrelevant data
- Fix structural errors
- Deal with missing Data
- Filter out data
- Validate our data
- Creating dictionary and saving it into csv format and
- again Reading it for Data visualization



Cleaned data

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16]:

	Name	Rating	Reviews	CompanyType	HeadQuater	Age of company	Employees	Salary	Interviews	Jobs
0	Legato Health Te	4.1	15000	LLP	Bangalore/Bengaluru,Karnataka + 8 more	6 years old	10000-50000	167000	155	14
1	Oracle	3.9	38000	Public	Austin,Texas + 32 more	46 years old	50000-100000	506000	385	226
2	Aragen Life Scie	4.4	1000	Private	Hyderabad/Secunderabad,Telangana + 12 more	23 years old	1000-5000	44000	52	9
3	Synchrony	4.4	735	Private	Stamford + 5 more	20 years old	1000-5000	42000	24	19
4	DXC Technology	3.9	7000	Public	Minato, Tokyo + 56 more	6 years old	10000-50000	762000	372	871
414	Suven Life Scien	3.9	114	Public	Hyderabad/Secunderabad,Telangana + 5 more	34 years old	51-200	693	2	2
415	Teradata	4.2	240	Private	San Diego, California + 7 more	44 years old	1000-5000	33000	24	44
416	HTC Global Servi	3.7	743	Private	Troy,Michigan + 20 more	33 years old	5000-10000	83000	52	32
417	AT&T	4.3	300	Private	Dallas,Texas + 12 more	40 years old	10000-50000	3000	16	14
418	Ags Infotech	4.5	88	Private	Hyderabad/Secunderabad + 5 more	40 years old	201-500	19000	16	24

419 rows × 10 columns



Raw Collection from Ambiton box Site

	Name Rating Reviews CompanyTy		CompanyType	HeadQuater C		Employees	Salaries	Interviews	Jobs	
0	Legato Health Te 4.1 15000 LLP		Bangalore/Bengaluru,Karnataka + 8 more	6 years old	10k-50k Employees (India)	167000	155	14		
1	Oracle	3.9	38000	Public	Austin,Texas + 32 more	46 years old	50k-1 Lakh Employees (India)	506000	385	22
2	Aragen Life Scie	4.4	1000	Private	Hyderabad/Secunderabad, Telangana + 12 more	23 years old	1k-5k Employees (India)	44000	52	9
3	Synchrony	4.4	735	Private	Stamford + 5 more	20 years old	1k-5k Employees (India)	42000	24	1
4	DXC Technology	3.9	7000	Public	Minato, Tokyo + 56 more	6 years old	10k-50k Employees (India)	762000	372	87
414	Suven Life Scien	3.9	114	Public	Hyderabad/Secunderabad,Telangana + 5 more	34 years old	51-200 Employees (India)	693	2	:
415	Teradata	4.2	240	Private	San Diego,California + 7 more	44 years old	1k-5k Employees (India)	33000	24	4
416	HTC Global Servi	3.7	743	743 Private	Troy,Michigan + 20 more	33 years old	5k-10k Employees (India)	83000	52	3:
417	AT&T	AT&T 4.3 300 Private		Private	Dallas,Texas + 12 more	40 years old	10k-50k Employees (India)	3000	16	1
418	Ags Infotech	4.5	88	Hyderabad/Secunderabad + 5 more	201-500 Employees (India)	NaN	NaN	19000	NaN	Nal

Cleaned data

df

	Name	Rating	Reviews	Company Type	HeadQuater	Old	Employees	Salaries	Interviews	Jobs
0	Legato Health Te	4.1	15000	LLP	Bangalore/Bengaluru,Karnataka + 8 more	6 years old	10000-50000	167000	155	14
1	Oracle	3.9	38000	Public	Austin,Texas + 32 more	46 years old	50000-100000	506000	385	226
2	Aragen Life Scie	4.4	1000	Private	Hyderabad/Secunderabad,Telangana + 12 more	23 years old	1000-5000	44000	52	9
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416	HTC Global Servi	3.7	743	Private	Troy,Michigan + 20 more	33 years old	5000-10000	83000	52	32
417	AT&T	4.3	300	Private	Dallas,Texas + 12 more	40 years old	10000-50000	3000	16	14
418	Ags Infotech	4.5	88	Private	Hyderabad/Secunderabad + 5 more	40 years old	201-500	19000	16	24

419 rows × 10 columns

Data Visualization

- **Univariate Analysis**:
- Univariate analysis explores each variable in a data set, separately.
- 1) Categorical
- 2) Numerical
- Bivariate Analysis:
- Bivariate analysis is a kind of statistical analysis in which two variables are observed against each other.
- Categorical & Categorical
- Cross tab, Count plot, Stacked/Group Bar chart.
- Categorical & Numerical
- Bar chart, Group By, Pivot.
- Numerical & Numerical
- Scatter plot, Heat map etc



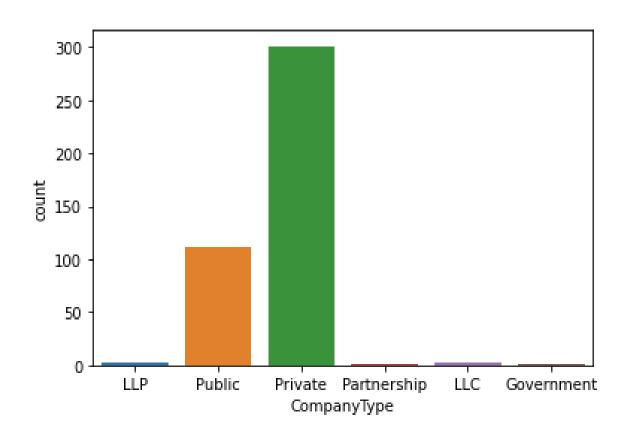
Multi-variate Analysis:

Multi-variate analysis is a kind of statistical analysis in which more than two variables are observed against each other.

- 1. Two Categorical and One Numerical
- 2. Two Numerical and One Categorical
- 3. Three or more Numerical



Types of companies category Distribution(Univariate-cat)



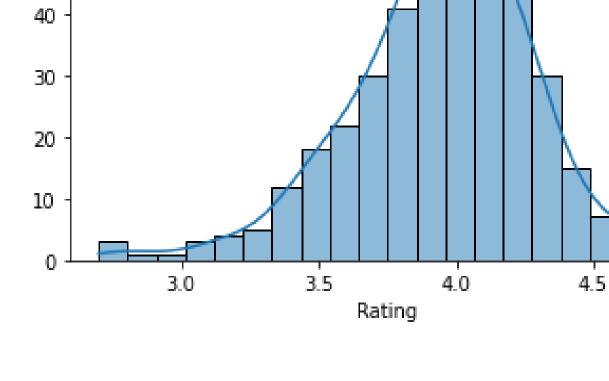
• From the graph we can say that we have maximum number of companies in private company in our data



Density of rating(univariate-num)

 From the plot we can see that the density of rating in different company of ratio is between 3.5 to 4.5 60

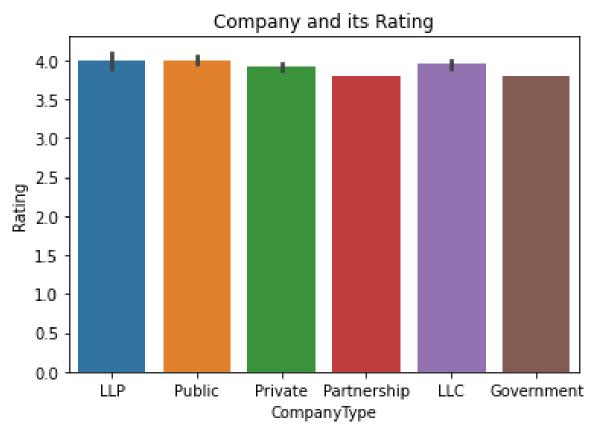
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Rating density



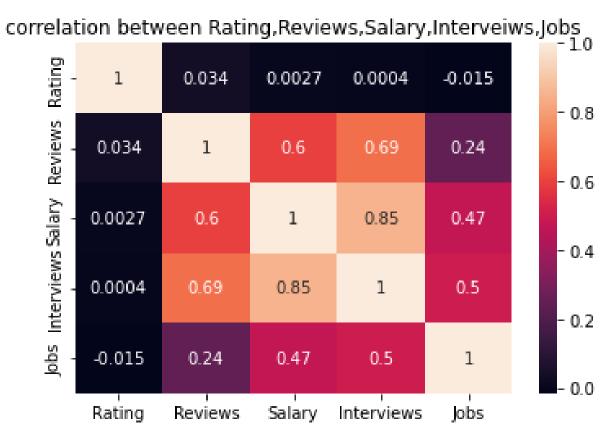
Rating and company type (bivariate-cat and Num)



 From graph we can analyse that almost of the companies have higest nearby equally rating



Correlation (Multivariate)

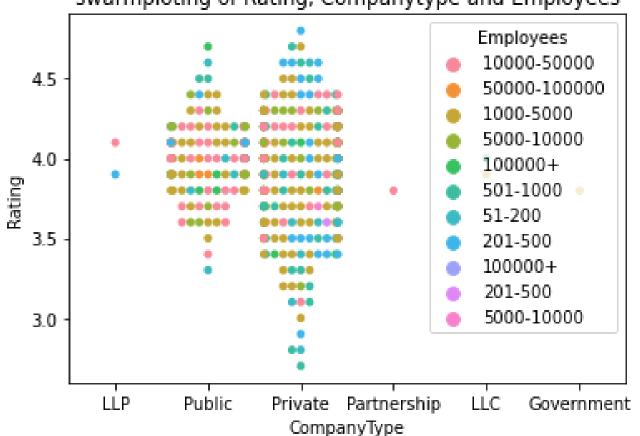


- From the plot we can conclude that it has positive relationship and negative relationship
- And we can say that as reviews increases interviews also increases



Max number of company type with salaries and and rating (Multivariate-cat vs num vs object)

swarmploting of Rating, Companytype and Employees



• From the graph we can conclude that most of the rating lie between 3.5 to 4.5 and private companies more rating compare to other and the no of employees in 201-500 group



Scenario 1 suppose a person wants know a company with more than 4.5 rating



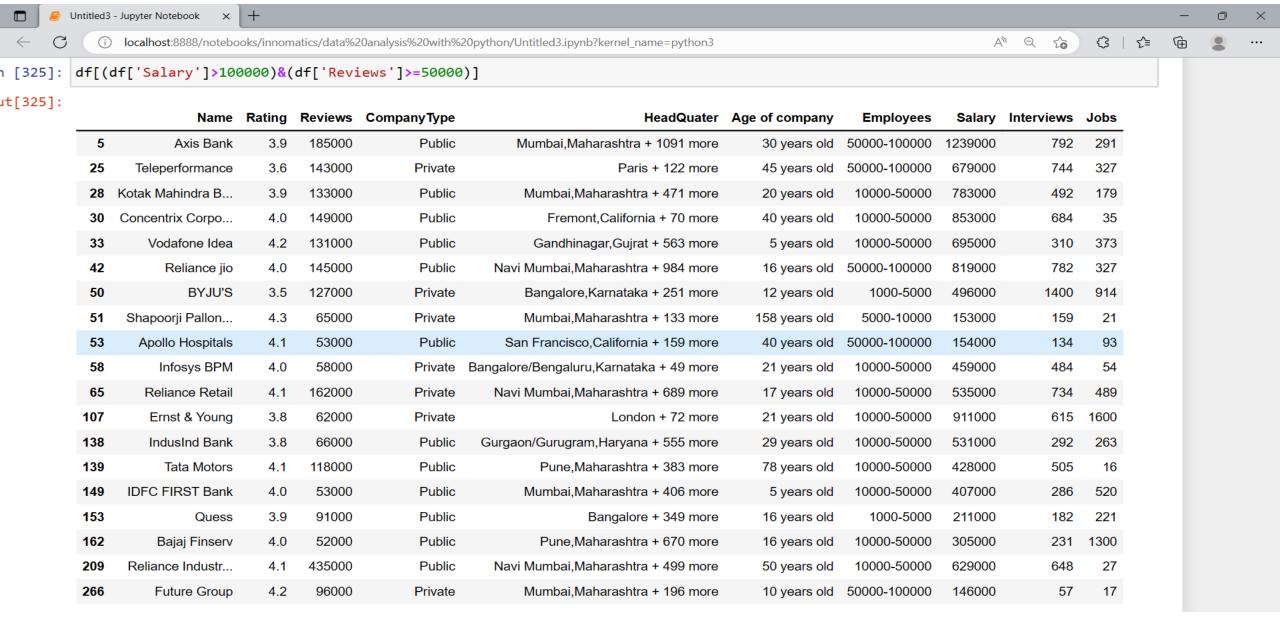
df[df['Rating']>4.5]

	Name	Rating	Reviews	CompanyType	HeadQuater	Age of company	Employees	Salary	Interviews	Jobs
166	EC-Council	4.6	191	Private	Petaling Jaya + 7 more	18 years old	501-1000	594	7	61
180	Indian Army	4.7	4000	Public	New Delhi, Delhi + 267 more	128 years old	100000+	128000	80	24
189	Qentelli	4.7	136	Private	Dallas,TX	8 years old	501-1000	802	5	61
196	Skilliantech	4.8	223	Private	London, England + 11 more	18 years old	201-500	282	6	27
232	Sagarsoft	4.6	120	Public	Hyderabad/Secunderabad,Telangana + 1 more	27 years old	51-200	416	3	19
310	Anion Healthcare	4.6	108	Private	Hyderabad/Secunderabad,Telangana + 3 more	24 years old	51-200	354	4	17
334	NxtWave	4.7	143	Private	Hyderabad, Telangana + 5 more	3 years old	1000-5000	295	19	201
356	CMR Engineering	4.6	123	Private	Hyderabad + 2 more	13 years old	201-500	118	1	24
360	CMR Engineering	4.6	123	Private	Hyderabad + 2 more	13 years old	201-500	118	1	24
390	CMR Engineering	4.6	123	Private	Hyderabad + 2 more	13 years old	201-500	118	1	24

Scenario 2 if a parson wants a company with > 100000

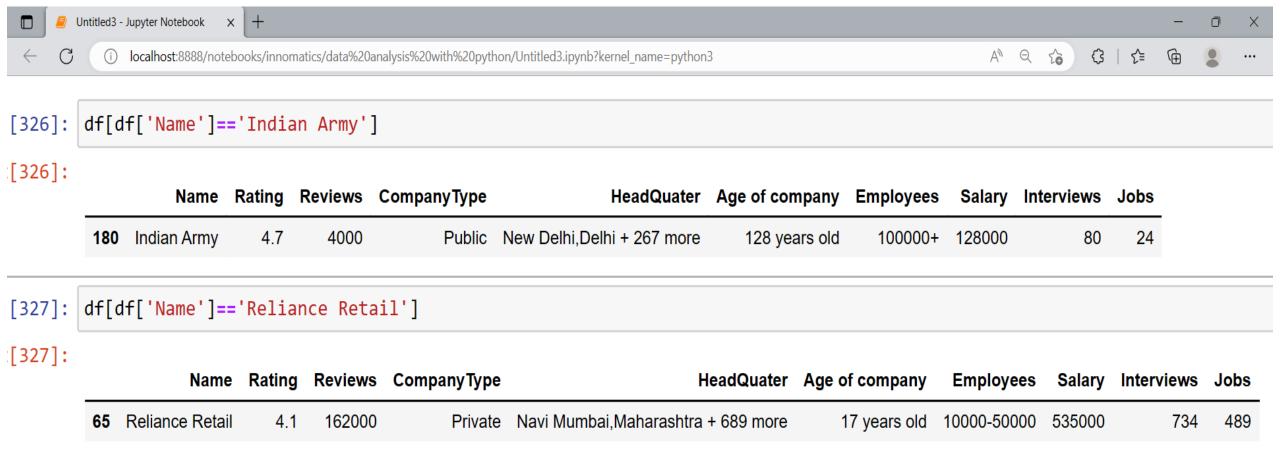






Scenario 3

suppose a person wants to compare two companies between these two he wants to know which one has rating and other info





Conlusion:



 By studing the data we can know about various companies info based on rating, salaries, reviews, company type, interviews jobs and company's age





